Extron® Electronics

INTERFACING, SWITCHING AND CONTROL

2010 NEW PRODUCTS

SECOND EDITION

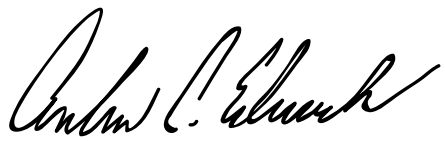
Extron®

Satisfaction Guarantee

As a leading manufacturer in the A/V industry, we are committed to engineering and manufacturing our products to the highest standards of quality, performance, and value. From our advanced product design, manufacturing and quality control procedures to our friendly and knowledgeable support teams, our commitment to satisfy you is paramount. In every interaction with Extron, you can be confident you will receive our S3 commitment to Service, Support, and Solutions. For more than 27 years, our objective has been to ensure that every customer is completely satisfied with every purchase.

To underscore this commitment, we offer our Satisfaction Guarantee. This means we will work diligently to resolve any issue you have with your purchase until you are completely satisfied. Extron employees are prepared to do whatever it takes to make certain that the entire process of doing business with us is a positive and professionally rewarding experience for you.

I'm so confident in our ability to deliver on this pledge that I back it personally. If you are not satisfied with any part of your transaction with Extron, I want to know. Please contact me at president@extron.com. I will personally address any unresolved customer issue. We greatly appreciate your business. It is our intent to keep you as a customer for life.



Andrew C. Edwards

President

A/V STREAMING PRODUCTS

VN-Matrix

Low Delay, High Quality A/V Streaming and Recording Solutions

PURE 3™ CODEC
OPTIMIZED FOR NETWORKS

The **Extron VN-Matrix**™ takes the one-to-one, one-to-many, many-to-many flexibility of the traditional matrix switcher and extends it to standard IP networks, making possible the real-time transmission of high resolution audio visual content without the restrictions of geography or I/O size. The VN-Matrix encodes video or graphical image content at resolutions up to 1080p/60 and 1920x1200, delivers it across the network, and decodes it back to the original source resolution, utilizing the revolutionary Extron PURE3™ Codec, a unique wavelet-based compression technology optimized for A/V presentation, monitoring, and collaboration.

VN-Matrix™ 200 Series

DVI & RGB Video Over IP Encoders & Decoders

The VN-Matrix™ 200 Series provides real-time transmission of high resolution audio visual content across standard IP networks for live viewing, collaboration, storage, and playback. The VN-Matrix 200 Series encodes video or graphics sources at resolutions up to HD or WUXGA, streams the video and audio over an IP network, then decodes the content back to the original source resolution. VN-Matrix applies Extron's PURE3™ Codec, a unique wavelet-based compression technology. The VN-Matrix 200 Series offers real-time performance and low latency, making it ideal for remote collaborative and interactive or control applications. It can be deployed in live event streaming and high level conferencing for specialized projects.

FEATURES

- Supports up to WUXGA resolution (1920x1200)
- HD Video over IP up to 1920x1080p
- Low latency streaming - 35ms encode and 35ms decode
- Supports refresh rates from 24 to 85 Hz
- Dual 1 Gigabit network interfaces
- Compatible with the VN-Matrix™ Recorder for real-time record, store, and playback
- S/PDIF digital audio interface
- Extensive bit rate management

Model	Version Description	Part Number
VNC 200 DVI	Codec for DVI-I, Keyboard & Mouse	60-1117-01
VNC 200 DVI-A	Codec for DVI-I, Audio/Keyboard/Mouse	60-1118-01
VNE 200 DVI	Encoder for DVI-I & Digital Audio	60-1119-01
VND 200 DVI	Decoder for DVI-I & Digital Audio	60-1120-01
VN-Matrix Recorder	Recorder	60-1121-01
VNM Software Decoder	VN-Matrix 200 Series Software Viewer	29-098-01

VN-Matrix™ 300 Series

SDI, HD-SDI & 3G-SDI Over IP Encoders & Decoders

The VN-Matrix™ 300 Series encoders and decoders enable streaming of SDI, HD-SDI, and 3G-SDI video over IP networks. They produce excellent image quality at highly efficient bit rates with low latency. The VN-Matrix 300 System utilizes Extron's PURE3 Codec that exceeds many of the performance characteristics of existing compression formats and provides exceptionally robust protection against network errors, making it ideal for quality-critical applications.

FEATURES

- Streams serial digital video with embedded audio
- Video Bit Rates from 6 Mbps to 150 Mbps
- 10 Bit YCrCb 4:2:2 encoding
- Supports resolutions up to 1080p/60 Hz
- Low latency streaming - 35ms encode and 35ms decode
- Codec switchable between encode and decode operation
- Decoders are genlockable and frame-lockable to external SDI reference

Model	Version Description	Part Number
VNC 300 SDI	Codec for SDI	60-1122-01
VNC 300 HD-SDI	Codec for HD-SDI	60-1123-01
VNC 300 3G-SDI	Codec for 3G-SDI	60-1124-01
VND 300 SDI	Decoder for SDI	60-1125-01
VND 300 HD-SDI	Decoder for HD-SDI	60-1126-01
VND 300 3G-SDI	Decoder for 3G-SDI	60-1127-01
VN-Matrix Recorder	Recorder	60-1121-01

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A/V STREAMING PRODUCTS

VNM Recorder

VN-Matrix Recorder

The VN-Matrix™ Recorder is a network attached storage - NAS device used to digitally record and play back high-definition computer graphics, video, audio and data streams encoded to the IP network via VN-Matrix encoders and decoders. The Recorder is ideally suited for any VN Matrix application requiring the documentation, archive, review and playback of highly-sophisticated or demanding imagery.

FEATURES

- Digitally record and playback video, audio, & data
- Records multiple visually lossless high-resolution encoded VN-Matrix™ streams over IP
- Virtual switching of video, graphics, and audio over IP
- Record and synchronize up to 5 channels
- Point-to-point and long distance distribution
- Two terabyte content storage capacity

Model	Version Description	Part Number
VNM Recorder	VN-Matrix Recorder	60-1121-01

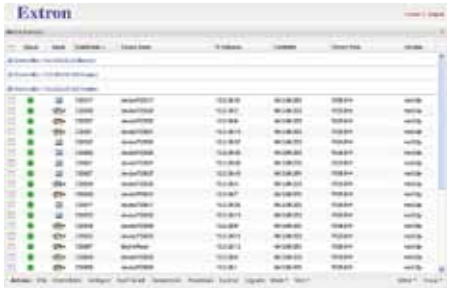
VNM Enterprise Controller

VN-Matrix Enterprise Controller

The VN-Matrix Enterprise Controller is a dedicated control appliance for VN-Matrix systems. The Enterprise Controller simplifies managing a large VN-Matrix deployment by allowing users to view, manage, and dynamically control multiple VN-Matrix systems and networked VN-Matrix domains from a single user interface. For mission-critical applications, two Enterprise Controllers can be configured to run as a redundant system.

FEATURES

- Monitor, configure, and manage all VN-Matrix and VN-Matrix Recorder units as a system
- High level interface provides single point of control for external control systems
- Manage multiple VN-Matrix systems in a single or independent domain
- Can be used as a redundant control unit in mission critical applications



Model	Version Description	Part Number
VNM Enterprise Controller	Enterprise Controller-Primary	60-1133-01
VNM Enterprise Controller Secondary	Enterprise Controller-Secondary	60-1134-01

HD VIDEO PLAYERS

JMP 9600

JPEG 2000 HD Video Player

The JMP 9600 HD and JMP 9600 2K can be used to provide 2D and 3D playback of JPEG 2000 format files and are ideal for entertainment and commercial applications where superior image quality is critical to the audience experience. Sharp and vivid images are assured with the JMP 9600's JPEG 2000 playback at up to 250Mbs. The JMP 9600 supports two playback channels providing additional capabilities and value. The two channels can be independently controlled or they can be synchronized for super-wide screen or 3D displays.

FEATURES

- Digital video output: HD-SDI or DVI-I
- JPEG 2000 encoded content up to 250Mbps, 4:4:4 color and 12-bit sampling
- Dual outputs can operate as two independent sources or as a synchronized output
- Genlock input and linear time code input and output, JMP 9600 2K model only
- Multiple JMP 9600 2K units can lock together for multi-screen applications
- Built in video confidence monitor

Model	Version Description	Part Number
JMP 9600 HD	JPEG2000 Media Player HD	60-1135-01
JMP 9600 2K	JPEG2000 Media Player 2K	60-1136-01
J2KENC-PRO	JPEG2000 Professional Software Encoder	29-099-01

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TOUCHLINK™ CONTROL SYSTEMS

TLP 350MV

TouchLink™ 3.5" Wall Mount Touchpanel

The Extron TLP 350MV TouchLink™ 3.5" Wall Mount Touchpanel is ideal for applications that require a compact touchpanel with a small installation footprint. Designed to mount securely into a wall, lectern, or other flat surface, the TLP 350MV provides the power of touchpanel control in the same three-gang form factor common for keypad controllers. Eight customizable backlit buttons provide expanded control capabilities to ensure that critical functions are easily accessible. The TLP 350MV touchpanel enables integrators to deploy a fully configurable, small-format, surface-mounted touchscreen control interface with a sophisticated, high tech appearance.

FEATURES

- 3.5" high resolution color touchscreen
- Eight customizable backlit buttons
- User-friendly volume knob for simple and intuitive volume control
- Full motion video window for use as a preview, confidence monitor, or security camera monitor
- Integrated Ethernet port compatible with Extron IP Link-enabled control processors
- Motion detector senses movement near the screen, waking the panel from an energy saving mode
- Auto dimming feature adjusts touchscreen brightness as room lighting changes
- Three-gang mounting on a wall, lectern, or any flat surface
- Supports Power over Ethernet, PoE 802.3af

Model	Version Description	Part Number
TLP 350MV	3.5" Touchpanel- Wall Mount - Black	60-1077-02

TLP 700MV

TouchLink™ 7" Wall Mount Touchpanel

The Extron TLP 700MV TouchLink™ 7" Wall Mount Touchpanel is designed to mount securely into a wall, lectern, or other flat surface. In addition to the seven-inch, full-color high resolution touchscreen, the ten field-labelable backlit buttons provide expanded control capabilities to ensure that critical functions are easily accessible. The TLP 700MV touchpanel enables integrators to deploy a fully configurable surface-mounted touchscreen control interface with a sophisticated, high tech appearance.

FEATURES

- 7" widescreen high resolution color touchscreen
- Ten field-labelable backlit buttons for expanded control
- User-friendly volume knob for simple and intuitive volume control
- Full motion video for use as a preview, confidence monitor, or security camera monitor
- Integrated Ethernet port compatible with IP Link-enabled control processors
- Motion detector senses movement near the screen, waking the panel from an energy saving mode
- Auto dimming feature adjusts touchscreen brightness as room lighting changes
- Mounts on a wall, lectern, or any flat surface

Model	Version Description	Part Number
TLP 700MV	7" TouchLink Panel - Wall Mount - Black.....	60-546-02
TLP 700MV	7" TouchLink Panel - Wall Mount - White.....	60-546-03

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TOUCHLINK™ CONTROL SYSTEMS

IPL 500

IP Link® Ethernet Control Processor

The IPL 500 is an Ethernet control processor for use as part of a TouchLink™ configurable touchpanel control system. The IPL 500 provides vital A/V system control capabilities including bidirectional serial ports, configurable unidirectional IR/serial ports, Ethernet driver ports, flex I/O ports, and relays for interfacing with displays, switchers, sources, screen control, lighting systems, and other devices. The IPL 500 is configured with the free, easy-to-use Extron Global Configurator software. Using the Free GlobalViewer® Web-based A/V resource management and remote control software application, IPL 500 users can manage, monitor, and control both Extron and third-party equipment like projectors, flat panel displays, monitors, VCRs, DVD players, and other devices in an Ethernet network.

FEATURES

- Compatible with TouchLink Control Systems
- Eight bidirectional RS-232 ports
- Eight configurable IR/Serial ports for one-way control of external devices
- Eight relays for controlling room functions
- Four switched DC power ports
- Supports up to six TouchLink touchpanels
- Four flex I/O ports
- Supports Ethernet device drivers
- IP Link® Ethernet monitoring and control
- Free Global Configurator, easy-to-use configuration software
- Integral high performance Web server
- Extensive library of Extron Certified device drivers

Model	Version Description	Part Number
IPL 500	IP Link Ethernet Control Processor	60-1071-01

GUI Configurator 1.1

Free User Interface Design Software for TouchLink™ Panels

Extron GUI Configurator software, exclusively for use with TouchLink panels, makes designing full-color touchscreen interfaces easy, even for those without graphic design skills. GUI Configurator software includes ready-to-use templates for single display rooms, dual display rooms, divisible rooms, multi-image systems, and video conference suites. The touchscreen design templates are fully customizable and matched carefully to the most common A/V applications integrators are likely to encounter. Getting started is fast and simple using the familiar Windows-like interface. GUI Configurator software's resource libraries of shapes, graphics, and sounds provide a variety of choices for design of master pages, popup pages for transport controls, multistate buttons, 3D effects, video windows, dynamic text, and more.

FEATURES

- NEW Template-based workflow allows users to visually select a template and style for each project
- NEW Creation of Modal Pop-Up Pages which hover over a control interface and require user interaction
- NEW Improved design verification process detects and identifies configuration errors
- NEW Productivity enhancements, including more efficient button ID rules and Zoom In/Out for design and verification purposes
- No graphic design skills required
- Includes ready-to-use templates for popular A/V system applications
- Complete resource library of customizable elements
- Easily modify templates, or start from scratch for a fully customized layout
- Completed designs are easy to upload to a TouchLink Panel or save to disk

Model	Version Description	Part Number
GUI Configurator 1.1	User Interface Design Software	79-535-01

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TOUCHLINK™ CONTROL SYSTEMS

Global Configurator 4.0

Free Configuration Software for TouchLink™, MediaLink®, and IP Link® Control Systems

Global Configurator is a simple-to-use, yet comprehensive software application that allows non-programmers to configure a wide range of Extron products, including IP Link, MediaLink, and TouchLink Systems. It provides an integrated environment for defining A/V control and monitoring system functionality from an easy-to-use graphical user interface. It's simple enough to be used for configuring a single room controller, yet powerful enough to facilitate building a Web-based A/V resource management and remote monitoring system for hundreds of A/V devices in multiple locations.

The latest version includes many new features, including box-to-box communication which enables the grouping of multiple controllers to support larger, more complex A/V systems.

FEATURES

- NEW Box-to-box communication enables multiple controllers to function together as one for larger, more complex systems
- NEW Enhanced user interface that makes systems even easier to configure
- NEW Conditional logic to allow button operations to be contingent on a variety of separate conditions
- NEW Master controllers streamline the configuration of large installs with inentical rooms
- NEW Virtual TouchLink enables Web browser access of the touchpanel GUI on a PC or Mac
- No programming skills required
- Configures IP Link, MediaLink, and TouchLink Systems
- Extensive library of thousands of certified, ready-to-use serial and IR drivers
- GlobalViewer system designer

Model	Version Description	Part Number
Global Configurator 4.0	Configuration Software	79-511-01

GlobalViewer® Enterprise 1.2

Server-Based A/V Resource Management Software

GlobalViewer® Enterprise server-based software is the next step up for managing larger A/V installations. It provides an easy upgrade path for existing users of Extron's Free GlobalViewer Web application using configuration, not programming. Compatible with most Web browsers, GlobalViewer Enterprise provides enhanced help desk functionality, enterprise-wide scheduling and monitoring, and time-stamped A/V system data collection for reporting. Built on Microsoft® .NET® technology, GlobalViewer Enterprise integrates with third-party facility scheduling software for viewing room availability and managing meeting schedules. As with Extron's GlobalViewer application, no programming is required.

FEATURES

- NEW iGVE app for iPhone, iPad, or IPod Touch devices
- NEW Supports CollegeNET R25 room schedules
- NEW Customizable helpdesk layouts
- NEW Supports projectors with multiple lamps
- No programming knowledge required
- Support for third-party control system integration
- Comprehensive set of customizable device usage, trend analysis, and inventory reports
- Supports many common Web browsers
- Seamless integration with third-party facility scheduling software
- Supports user logon authentication using Microsoft Active Directory

Model	Version Description	Part Number
GlobalViewer Enterprise Commissioning	Commissioning Services for GVE	03-003-01
GlobalViewer Enterprise	Server-Based Resource Mngmnt Software	29-096-01

BB 700M

Back Box for use with TLP 700MV TouchLink 7" Wall Mount TouchPanel

The BB-700M is designed to provide a recess-mounted steel enclosure for the Extron TLP 700MV TouchLink™ 7" Wall Mount Touchpanel. It allows the TLP 700MV to be mounted in retrofit or pre-construction applications where an in-wall installation is required. The BB-700M provides standard knockouts for fixed or flexible conduit.

FEATURES

- Designed for use with the TLP 700MV TouchLink™ Touchpanel
- Recess-mounted steel enclosure for retrofit and pre-construction applications
- Standard knockouts provided for fixed or flexible conduit

Model	Version Description	Part Number
BB 700M	Back Box for TLP 700MV	70-690-01

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TOUCHLINK™ CONTROL SYSTEMS

EWB 700

External Wall Box for the TLP 700MV Touchlink™ Touchpanel

The EWB 700 External Wall Box is an achitectural mounting solution designed to easily mount a TLP 700 MV TouchLink™ touchpanel to a wall. The EWB 700 is the ideal mounting solution for concrete, brick, wood, or other solid surfaces where in-wall mounting is not possible. The EWB 700 provides knockouts for popular raceway systems and conduit to accommodate concealed cable runs. Available in black or white.

FEATURES

- Architectural solution for mounting the TLP 700MV to a wall
- Ideal for use on solid walls including concrete, brick, or wood where in-wall mounting of a touchpanel is not possible
- Knockouts for external raceway cable channels
- Available in black or white

Model	Version Description	Part Number
EWB 700	TLP 700MV Mounting Box, black	60-1100-02
EWB 700	TLP 700MV Mounting Box, white	60-1100-03

SMB 303

Low Profile Surface Mount Box for Three-Gang Products

The SMB 303 Surface Mount Box is an elegant mounting option for Extron three-gang products that are less than 1.5" deep, including the TLP 350MV TouchLink™ touchpanel. The SMB 303 is suitable for external mounting on lecterns, tabletops, and other flat surfaces. The sculpted design of the SMB 303 provides a contemporary look to complement any environment. Available in black or white.

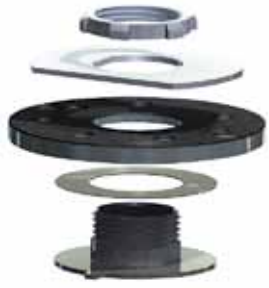
FEATURES

- Compatible with Extron three-gang products that are less than 1.5" deep, including the TLP 350MV, SCPs, MAAP mounting frames, and more
- Suitable for external mounting on lecterns, tabletops, and other flat surfaces
- Sculpted design offers a contemporary appearance to complement any environment
- Friction pads stabilize the unit while in use and protect table finish
- Mounting holes for permanent attachment to table
- Supports the optional SMA-1 Swivel Mount Adapter
- Available in black or white

Model	Version Description	Part Number
SMB 303	**Three-gang, black**	60-1098-02
SMB 303	**Three-gang, white**	60-1098-03

SMA-1

Swivel Mount Adapter



The SMA-1 Swivel Mount Adapter is designed for use with the SMB 303 Surface Mount Box. It provides a method for rotating the box to provide easy access for multiple users. The SMA-1 provides multiple stop points so the installer can precisely determine the degree of rotation for easy access and prevention of cable strain and tangling. The SMA-1 elevates the SMB 303 slightly to prevent table surface damage during rotation.

FEATURES

- Provides swivel capability for the SMB 303
- Multiple stopping points allow the user to determine the amount of rotation
- Provides access to multiple users from a single location
- Elevates the SMB 303 to prevent surface wear and damage

Model	Version Description	Part Number
SMA-1	**Swivel Mount Adapter**	70-747-01

LPVM-1

Low Profile Wall Mount for VESA Compatible Products

The Extron LPMV-1 Low Profile VESA Mount is designed for wall mounting VESA compatible products. The LPMV-1 allows VESA B or VESA D products to be mounted directly to a wall, or to a two-gang junction box or mud ring. Security screws are provided to ensure theft deterrence and loss prevention. Available in black.

FEATURES

- Wall or other flat surface mounting solution for Extron VESA compatible products
- Supports VESA B and VESA D mounting patterns
- Security screws provided to ensure theft deterrence and loss prevention
- Available in black

Model	Version Description	Part Number
LPVM-1	**Low Profile VESA Mount, black**	60-1099-02

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MEDIALINK®

MLS 608 D

Eight Input MediaLink® Switcher/Preamp with ProDSP™ Audio

The Extron MLS 608 D MediaLink® Switcher is a simple-to-use, eight input, multi-format switcher designed to integrate digital and analog sources. All signals are transmitted over CAT 5-type cable to the included SYS/MLS D R Twisted Pair Receiver. The MLS 608 D features Extron ProDSP™ digital audio processing, which provides an extensive array of easy-to-use tools for audio system set-up and fine-tuning. The MLS 608 D offers digital video switching with four HDCP-compliant, HDMI 1.3 inputs, and analog video switching with four universal inputs, including an Extron Universal MTP Twisted Pair input. It outputs HDMI twisted pair signals and analog MTP Twisted Pair to the included SYS/MLS D R receiver, providing a complete digital and analog video and audio switching system.

FEATURES

- Accepts and switches multiple digital and analog video signal formats
- Four input HDMI 1.3 switching
- Four input analog universal video switching
- HDMI audio de-embedding
- ProDSP™ audio signal processing for audio mixing, ducking, and feedback suppression
- Transmits HDMI and analog video, plus audio and RS-232 over CAT 5-type cables
- Includes SYS/MLS D R Twisted Pair Receiver
- EDID Minder™
- Available stereo power amplification with 25 watts rms per channel into 4 or 8 ohms, or mono 70 volt amplification with 50 watts rms output

MLS 608 D SA

Model	Version Description	Part Number
MLS 608 D	Variable Preamp Output - No Amplifier	60-1052-01
MLS 608 D MA	50 Watt 70 Volt Mono Power Amplifier	60-1052-02
MLS 608 D SA	2x25 Watt Stereo Power Amplifier	60-1052-03

SYSTEM SWITCHERS

System 208 D

Eight Input A/V Switcher with Integrated Device Control and ProDSP™ Audio

The Extron System 208 D is an eight input A/V system switcher designed to integrate both digital and analog sources. It works with optional TouchLink™ Touchpanels and SCP Secondary Control Panels to provide enhanced display and room control, and features Extron ProDSP™ with an extensive array of easy-to-use, digital audio processing tools for audio system setup and fine-tuning. The System 208 D offers digital video switching with four HDCP-compliant, HDMI 1.3 inputs, as well as analog video switching with four universal inputs, including an Extron Universal MTP Twisted Pair input. It outputs HDMI twisted pair and analog MTP Twisted Pair signals to the included SYS/MLS D R receiver, providing a complete digital and analog video and audio switching system with integrated room control.

FEATURES

- Multi-input switcher for digital and analog video signals with ProDSP™ audio processing
- Sends HDMI and analog video, plus audio and RS-232 over CAT 5-type cables to included twisted pair receiver
- Four input HDMI 1.3 switching
- Four input analog universal video switching
- HDMI audio de-embedding
- ProDSP audio signal processing for audio mixing, ducking, and feedback suppression
- EDID Minder™
- HDCP compliant
- Universal display control via RS-232, Ethernet, or IR
- Two bidirectional RS-232 and two IR/serial control ports
- Four configurable relays for room control
- Two digital I/O ports
- RS-232 control port
- IP Link® Ethernet monitoring and control
- Available stereo power amplification with 25 watts rms per channel into 4 or 8 ohms, or mono 70 volt amplification with 50 watts rms output

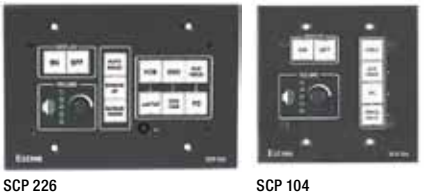
System 208 D SA

Works with MediaLink® Controllers and TouchLink™ Touchpanels

TLP 700MV

TLP 700TV

TLP 350CV



SCP 226

SCP 104

Model	Version Description	Part Number
System 208 D	Variable Preamp Output - No Amplifier	60-1051-01
System 208 D MA	50 Watt 70 Volt Mono Power Amplifier	60-1051-02
System 208 D SA	2x25 Watt Stereo Power Amplifier	60-1051-03

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FIBER OPTICS

PowerCage 1600

Modular Power Enclosure for Fiber Optic and Twisted Pair Extenders

The Extron PowerCage 1600 is a rack-mountable, 16-slot enclosure that supports a wide range of Extron fiber optic and twisted pair A/V transmitter and receiver boards. Providing an efficient way to power and mount multiple transmitters and receivers, the PowerCage 1600 simplifies integration for large, rack-mounted systems. The PowerCage 1600 also features an optional redundant, hot-swappable power supply plus active power and thermal management to optimize reliability in mission-critical environments where continuous, 24/7 operations is essential. The hot-swappable, modular design allows for replacing or upgrading boards in the field at any time, without having to power down the system.

FEATURES

- Accommodates up to 16 single-slot or eight double-slot multi-function boards
- Space-saving design with a compact 3U, rack-mountable enclosure
- Modular, field-upgradeable, and hot-swappable design
- Intelligent power management
- Optional redundant power supply
- Hot-swappable power supplies
- Exceptional thermal management
- PowerCage FOX Fiber Optic Extenders support standard definition or high resolution video, stereo audio, and RS-232 over a single fiber
- PowerCage MTP Twisted Pair Extenders support standard definition or high resolution video, and audio or RS-232 over a single CAT 5-type cable

PowerCage Boards

Fiber Optic and Twisted Pair A/V Transmitter and Receiver Boards for the PowerCage 1600

PowerCage FOX Fiber Optic Extenders

PowerCage FOX Fiber Optic Extenders include transmitter and receiver boards for long-haul transmission of A/V signals over a single fiber. They are available in a broad range of formats and rates, including high resolution RGB, DVI, multi-rate SDI, SD component video, S-video, and composite video. Engineered for reliability and exceptional high resolution image performance, they use Extron's exclusive all digital, zero compression technology, to deliver perfect pixel-for-pixel transmission of video images.

PowerCage MTP Twisted Pair Extenders

The PowerCage MTP Twisted Pair Extenders include transmitter and receiver boards for the transmission of A/V signals over a single CAT 5-type cable. The PowerCage MTP T 15HD RSA can transmit high resolution video and audio signals up to 1,500 feet (450 meters) when used with an MTP 1500RL extended distance receiver, while the PowerCage MTP R 15HD RSA SEQ receiver can receive XGA video and mono audio signals at cable lengths of 600 feet (180 meters) or more. PowerCage MTP Twisted Pair Extenders are available for high resolution RGB, HD YUV, S-video, and composite video along with audio or RS-232 signals.

Model	Version Description	Part Number
PowerCage 1600 Enclosure	3U, 16-Slot Frame	60-978-01
PowerCage 1600 Power Supply Kit	Redundant Power Supply Option	70-784-01
PowerCage Fiber Optic Boards		
PowerCage FOX 4G Tx DVI MM	Multimode - Transmitter	70-700-11
PowerCage FOX 4G Rx DVI MM	Multimode - Receiver	70-700-21
PowerCage FOX 4G Tx DVI SM	Singlemode - Transmitter	70-700-12
PowerCage FOX 4G Rx DVI SM	Singlemode - Receiver	70-700-22
PowerCage FOX 4G Tx VGA MM	Multimode - Transmitter	70-699-11
PowerCage FOX 4G Rx VGA MM	Multimode - Receiver	70-699-21
PowerCage FOX 4G Tx VGA SM	Singlemode - Transmitter	70-699-12
PowerCage FOX 4G Rx VGA SM	Singlemode - Receiver	70-699-22
PowerCage FOX 3G HD-SDI MM	Multimode - Transceiver	70-701-01
PowerCage FOX 3G HD-SDI SM	Singlemode - Transceiver	70-701-02
PowerCage FOX 2G Tx AV MM	Multimode - Transmitter	70-702-11
PowerCage FOX 2G Rx AV MM	Multimode - Receiver	70-702-21
PowerCage FOX 2G Tx AV SM	Singlemode - Transmitter	70-702-12
PowerCage FOX 2G Rx AV SM	Singlemode - Receiver	70-702-22
PowerCage Twisted Pair Boards		
PowerCage MTP T 15HD RSA	Transmitter	70-817-01
PowerCage MTP R 15HD RSA SEQ	Receiver w/Skew Equalizer	70-818-01
PowerCage MTP T AV	Transmitter	70-815-01
PowerCage MTP R AV	Receiver	70-816-01

PowerCage FOX 4G Tx VGA Transmitter

PowerCage FOX 4G Rx VGA Receiver

PowerCage FOX 4G Tx DVI Transmitter

PowerCage FOX 4G Rx DVI Receiver

PowerCage FOX 3G HD-SDI

PowerCage FOX 2G Tx AV Transmitter

PowerCage FOX 2G Rx AV Receiver

PowerCage MTP T 15HD RSA Transmitter

PowerCage MTP R 15HD RSA SEQ Receiver

PowerCage MTP T AV Transmitter

PowerCage MTP R AV Receiver

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FIBER OPTICS

FOX 4G Matrix 7200

Modular Fiber Optic Matrix Switcher from 8x8 to 72x72

The Extron FOX 4G Matrix 7200 is a high performance, modular fiber optic matrix switcher for complete, end-to-end digital A/V signal transmission and routing over fiber optic cable. The FOX 4G Matrix 7200 is expandable from 8x8 up to 72x72, and is fully compatible with the FOX Series of fiber optic transmitters and receivers. Supporting rates up to 4.25 Gbps, it accepts and routes standard definition video, high resolution computer-video, DVI-D, and multi-rate SDI. Equipped with the integration-friendly features common to Extron matrix switchers, together with hot-swappable I/O boards and fan, real-time system monitoring, and redundant, hot-swappable power supplies, the FOX 4G Matrix 7200 delivers highly reliable, enterprise-wide switching of fiber optic A/V and control signals for any mission-critical environment.

FEATURES

- I/O sizes from 8x8 to 72x72
- Compatible with all FOX Series transmitters and receivers
- Multimode and singlemode I/O boards available
- Multi-rate SDI I/O board available
- Modular, field-upgradeable and hot-swappable design
- Dual redundant and hot-swappable power supplies
- Low power consumption for efficient cooling, lower costs, and longer life
- Advanced computer-aided diagnostics
- Input video signal detection
- Status LED indicators for fiber link status
- Alarm notification for fiber link loss
- Two AC power inputs
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- QS-FPC™ - QuickSwitch Front Panel Controller with tri-color backlit buttons
- View I/O mode
- I/O grouping
- Rooming
- Global presets
- Front panel security lockout
- IP Link® Ethernet monitoring and control
- RS-232 and RS-422 control port
- Front panel configuration port
- Rack-mountable 8U, full rack width metal enclosure

Model	Version Description	Part Number
FOX 4G Matrix 7200	FOX 4G Matrix 7200 Frame	60-1011-01
FOX 4G I/O 88 MM	8x8 I/O Board - Multimode	70-791-01
FOX 4G I/O 88 SM	8x8 I/O Board - Singlemode	70-791-02
FOX 4G I/O 88 HD-SDI	8x8 I/O Board - Multi-Rate SDI	70-792-01
FOX 4G Matrix Blank Plate	Blank Plate - Single I/O Slot	70-651-21

For Larger Fiber Optic Matrix Switchers see Matrix 1K Program - Page 25

FOX 4G Matrix 320x

Modular Fiber Optic Matrix Switcher from 16x16 to 320x320

The Extron FOX 4G Matrix 320x is a high performance, modular fiber optic matrix switcher for complete, end-to-end digital A/V signal transmission and routing over fiber optic cable. The FOX 4G Matrix 320x is expandable from 16x16 up to 320x320 and is fully compatible with the FOX Series of fiber optic transmitters and receivers. Supporting rates up to 4.25 Gbps, it accepts and routes standard definition video, high resolution computer-video, DVI-D, and multi-rate SDI. Equipped with the integration-friendly features common to Extron matrix switchers, together with hot-swappable I/O boards and fan, real-time system monitoring, and redundant, hot-swappable power supplies, the FOX 4G Matrix 320x delivers highly reliable, enterprise-wide switching of fiber optic A/V and control signals for any mission-critical environment.

FEATURES

- I/O sizes from 16x16 to 320x320
- Compatible with all FOX Series transmitters and receivers
- Multimode and singlemode I/O boards available
- Modular, field-upgradeable and hot-swappable design
- Four redundant and hot-swappable power supplies
- Low power consumption for efficient cooling, lower costs, and longer life
- Advanced computer-aided diagnostics
- Input video signal detection
- Status LED indicators for fiber link status
- Alarm notification for fiber link loss
- Two AC power inputs
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- Global presets
- Extron control software
- Rooming
- IP Link® Ethernet monitoring and control
- RS-232 and RS-422 control port
- Front panel configuration port
- Rack-mountable 17U, full rack width metal enclosure

Model	Version Description	Part Number
FOX 4G Matrix 320x	FOX 4G Matrix 320x Frame	60-1082-01
FOX 4G I/O 1616 MM	16x16 I/O Board - Multimode	70-771-01
FOX 4G I/O 1616 SM	16x16 I/O Board - Singlemode	70-771-02
FOX 4G Matrix Blank Plate	Blank Plate - Single I/O Slot	70-651-21

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FIBER OPTICS

FOXBOX 4G Tx VGA/YUV

Fiber Optic Extender for VGA or YUV, Audio, and RS-232

The Extron FOXBOX 4G VGA/YUV Fiber Optic Extender is a transmitter for long haul transmission of high resolution VGA or HD component video, audio, and RS-232 control signals over a single fiber. Engineered for reliability and exceptional high resolution image performance, it uses Extron's exclusive all digital, zero compression technology, to deliver perfect pixel-for-pixel transmission of computer-video images up to UXGA (1600x1200) resolution and HDTV up to 1080p/60. The FOXBOX 4G VGA/YUV also includes image adjustments and calibration, Auto Input Memory, RS-232 control, internal test patterns, and real-time system monitoring. A compact, low profile enclosure allows for discreet installation. Multiple FOXBOX 4G receivers can be daisy-chained from the FOXBOX 4G VGA/YUV.

FEATURES

- Extends VGA or HD component video, stereo audio, and RS-232 control signals very long distances over a single fiber
- All digital, zero compression technology provides pixel-for-pixel performance with signals up to 1600x1200, including HDTV 1080p/60
- Compatible with HD component video, bi-level or tri-level sync
- Daisy-chain capability
- Real-time status LED indicators for troubleshooting and monitoring
- Alarm notification for fiber link loss
- Auto Input Memory
- RS-232 control
- 1" (2.5 cm) high, quarter rack width metal enclosure

Model	Version Description	Part Number
FOXBOX 4G Tx VGA/YUV MM	Multimode - Transmitter	60-1058-11
FOXBOX 4G Tx VGA/YUV SM	Singlemode - Transmitter	60-1058-12

FOX HD-SDI

Fiber Optic Extender for Multi-Rate SDI

The Extron FOX HD-SDI Fiber Optic Extender enables long haul transmission of multi-rate SDI video, with embedded audio and metadata, over a single fiber. Engineered for reliability and exceptional high resolution image performance, it uses Extron's exclusive all digital, zero compression technology to transmit multi-rate SDI signals up to 2.97 Gbps including SDI, HD-SDI, and 3G-SDI. To optimize SDI signal transmission to and from the FOX HD-SDI, input signals are automatically equalized and output signals are reclocked. The FOX HD-SDI can function as a transmitter and a receiver in various user-configurable modes.

FEATURES

- Extends SDI, HD-SDI, and 3G-SDI signals very long distances over a single fiber
- Input equalization and reclocking on buffered outputs
- NEW Immunity to SDI and HD-SDI pathological signal patterns
- Dual buffered outputs
- Daisy-chain capability
- Real-time status LED indicators for troubleshooting and monitoring
- 1" (2.5 cm) high, quarter rack width metal enclosure
- External universal power supply included

Model	Version Description	Part Number
FOX HD-SDI P SM	Singlemode, Pathological Comp., Qty. 1	60-1056-02

FOX 3G DVC

Fiber Optic Multi-Rate SDI to DVI and RGB / Component Converter

The Extron FOX 3G DVC receives fiber optic SDI, HD-SDI, and 3G-SDI serial digital video signals over a single fiber and converts them to DVI-D and analog RGB or component video. It is compatible with the FOX HD-SDI Fiber Optic Extender as well as FOX Series distribution amplifiers, switchers, and matrix switchers. The FOX 3G DVC features extraction of embedded AES3 audio, RS-232 serial control, and a fiber optic input loop-through that allows multiple FOX 3G DVC and FOX HD-SDI units to be daisy-chained. It is ideal for applications including television production, medical imaging, military simulation, houses of worship, and live events that require long distance transmission of SDI signals from broadcast-type sources and interfacing them with professional / consumer-level displays and other products.

FEATURES

- Accepts fiber optic multi-rate SDI signals up to 2.97 Gbps
- Compatible with the FOX HD-SDI Fiber Optic Extender and FOX Series distribution amplifiers, switchers, and matrix switchers
- Simultaneous DVI-D and analog RGB / component video outputs
- Daisy-chain capability
- AES3 audio de-embedding
- Audio gain and attenuation control
- Internal test patterns for calibration and setup
- Output muting control
- RS-232 control port

Model	Version Description	Part Number
FOX 3G DVC MM	Multimode	60-1034-01
FOX 3G DVC SM	Singlemode	60-1034-02

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DVI & HDMI

SMX System MultiMatrix

Modular Multi-Plane Matrix Switcher

The SMX System MultiMatrix Series of multi-plane matrix switchers combines proven reliability and high performance of Extron's popular CrossPoint Ultra, MAV Plus, HDXP Plus, and MVX Series matrix switchers with the efficiency of a truly modular, field-configurable matrix switcher design. SMX frames are available in sizes up to 5U, capable of supporting up to 10 separate matrix boards which can be switched independently or simultaneously, all under a single point of control. The SMX System is ideal for use in hybrid A/V signal routing applications where a variety of analog and digital signal types must be routed within the same room or facility. SMX is also an appropriate choice for applications that require a cost-effective upgrade path for ongoing I/O size or signal format changes.

SMX 300 frame populated with:
- SMX 1616 A - SMX 88 V - SMX 44 HDMI - SMX 1616 FOX 4G MM

New Matrix Switcher Boards for the SMX System MultiMatrix

SMX HDMI

HDMI Matrix Switcher Boards with EDID Minder™

NOW SHIPPING

The SMX HDMI Series Matrix Switcher Boards are designed for routing HDMI video signals with HDCP - High-bandwidth Digital Content Protection. They support computer video to 1920x1200 and HDTV to 1080p as well as embedded audio and control signals, and enable the routing of content from Blu-ray Disc players and other content-protected sources to one or more displays. SMX HDMI matrix boards provide +5 VDC, 250 mA of power on each output for external peripheral devices. They are available in four I/O sizes: 4x4, 4x8, 8x4, and 8x8.

FEATURES
- HDCP compliant
- HDMI 1.3 compatible
- Supports computer-video to 1920x1200, HDTV to 1080p
- EDID Minder™
- Audio Breakaway
- Provides +5 VDC, 250 mA power on each output for external peripheral devices
- Automatic cable equalization for each input to 50 feet (15 meters) when used with Extron HDMI Pro cables at 1920x1200
- Automatic output reclocking

SMX 88 HDMI

Model	Version Description	Part Number
SMX 44 HDMI	4x4 HDMI; 1 Slot	70-773-01
SMX 48 HDMI	4x8 HDMI; 2 Slots	70-773-05
SMX 84 HDMI	8x4 HDMI; 2 Slots	70-773-02
SMX 88 HDMI	8x8 HDMI; 2 Slots	70-773-03

SMX DVI Pro

HDCP-Compliant DVI Matrix Switcher Boards with EDID Minder™

NOW SHIPPING

The SMX DVI Pro Series Matrix Switcher Boards are designed for routing single link DVI-D video signals with HDCP High-bandwidth Digital Content Protection. These HDCP-compliant matrix boards support computer video to 1920x1200 and HDTV to 1080p, and enable the routing of content from Blu-ray Disc players and other content-protected sources to one or more displays. SMX DVI Pro matrix boards provide +5 VDC, 250 mA of power on each output for external peripheral devices. For installation convenience and flexibility in cable selection, the boards are equipped with DVI-I connectors for inputs and outputs. They are available in four I/O sizes: 4x4, 4x8, 8x4, and 8x8.

FEATURES
- HDCP compliant
- Single-link DVI-D data rates to 225 MHz
- Also switches HDMI 1.3 compatible signals
- Supports computer-video to 1920x1200, HDTV to 1080p
- EDID Minder™
- Audio Breakaway
- Provides +5 VDC, 250 mA power on each output for external peripheral devices
- Automatic cable equalization for each input to 50 feet (15 meters) when used with Extron DVID SL Pro cables at 1920x1200

SMX 88 DVI Pro

Model	Version Description	Part Number
SMX 44 DVI Pro	4x4 DVI w/HDCP; 1 Slot	70-598-11
SMX 48 DVI Pro	4x8 DVI w/HDCP; 2 Slots	70-598-15
SMX 84 DVI Pro	8x4 DVI w/HDCP; 2 Slots	70-598-12
SMX 88 DVI Pro	8x8 DVI w/HDCP; 2 Slots	70-598-13

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Extron

DVI & HDMI

SW HDMI Series

HDMI Switchers with EDID Minder™

The Extron SW HDMI Series are two, four, six, and eight input HDMI switchers that feature EDID Minder™, an Extron exclusive technology that automatically manages the EDID information between the digital display device connected to the output and all input sources. The switchers support HDMI 1.3 specification features including data rates up to 6.75 Gbps, Deep Color, Lip Sync, and HD lossless audio formats. HDCP compliance ensures interoperability with all other HDCP-compliant devices. These switchers support all HDTV rates including 1080p/60 12-bit Deep Color and PC resolutions up to 1920x1200. The SW HDMI Series switchers are ideal for routing HDMI video and embedded multi-channel digital audio to a single display.

FEATURES

- Supports HDTV 1080p/60 and PC resolutions up to 1920x1200
- HDMI 1.3 compatible
- HDCP compliant
- HDCP authentication and signal presence confirmation
- EDID Minder™
- Selectable input cable equalization for each input

Model	Version Description	Part Number
SW2 HDMI	Two Input HDMI Switcher	60-841-01
SW4 HDMI	Four Input HDMI Switcher	60-841-02
SW6 HDMI	Six Input HDMI Switcher	60-841-03
SW8 HDMI	Eight Input HDMI Switcher	60-841-04

RGB-HDMI 300 A

RGB and Stereo Audio to HDMI Scaler

The Extron RGB-HDMI 300 A is a high performance RGB and stereo audio to HDMI scaler that converts incoming analog component video and RGBHV signals to HDMI signals. It accepts HDTV and high resolution computer-video signals up to 1920x1200, and offers multiple output rates up to 1920x1200, including HDTV 1080p/60. The RGB-HDMI 300 A also offers audio embedding, so that analog audio inputs can be digitized into the scaled HDMI output. It is housed in a compact, low-profile enclosure for placement behind flat-panel displays, and offers several features for streamlining integration and enhancing system operation, including Auto Input Memory, Auto-Image™ setup, and RS-232 serial control.

FEATURES

- RGB and HDTV component video to HDMI scaling
- Audio embedding with gain, attenuation, and delay control
- 80 selectable output rates up to 1920x1200, including HDTV 1080p/60
- Auto-Image™ setup
- Auto Input Memory
- Picture controls for brightness, contrast, detail, horizontal and vertical positioning, sizing, and zoom
- On-screen display
- RS-232 control port
- Internal test patterns for calibration and setup

Model	Version Description	Part Number
RGB-HDMI 300 A	RGB and Stereo Audio to HDMI Scaler	60-1074-01

HAE 100

HDMI Audio De-Embedder

The Extron HAE 100 is an HDMI Audio De-Embedder that accepts an HDMI input and provides analog stereo and digital S/PDIF audio along with a buffered HDMI video output. The HAE 100 supports data rates of up to 6.75 Gbps for compatiblity with HDMI 1.3 Deep Color and is HDCP compliant. It is compatible with HDTV 1080p/60 and computer-video resolutions up to 1920x1200. The HAE 100 is equipped with several integrator-friendly features including EDID Minder™, input cable equalization, and a comprehensive LED status display. It provides a simple, convenient solution in HDMI installations for sending audio to a sound system for stereo audio or surround sound.

FEATURES

- HDMI audio de-embedding with analog stereo and digital S/PDIF audio outputs
- HDMI 1.3 compatible
- HDCP compliant
- EDID Minder™
- Automatic input cable equalization
- Comprehensive, real-time status LED indicators for troubleshooting and monitoring
- Front panel USB configuration port

Model	Version Description	Part Number
HAE 100	HDMI Audio De-Embedder	60-1075-01

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DVI & HDMI

MPS 409

Media Presentation Switcher

The Extron MPS 409 is a multi-format presentation switcher for digital and analog signals. It combines five independent switchers in a single compact enclosure: 3x1 HDMI with embedded audio, 2x1 DVI, 2x1 VGA/HDTV component video, 2x1 composite video, and 9x1 analog stereo audio. The MPS 409 features three selectable switching modes, including the ability to route all DVI and HDMI sources to the display using a single HDMI cable. Continuous EDID communications between the HDMI, DVI, and VGA sources and the display device ensures the reliable display of video. HDMI and DVI inputs and outputs are HDCP compliant, ensuring the display of content protected media. The MPS 409 is ideal for use in single-display applications that require a hybrid switcher for integration of digital and analog video sources and associated audio signals.

FEATURES

- Five switchers in one enclosure:
  - 3x1 HDMI switcher
  - 2x1 DVI switcher
  - 2x1 VGA/HDTV component video switcher
  - 2x1 composite video switcher
  - 9x1 analog stereo audio switcher
- HDCP compliant
- EDID Minder™
- Combine Switcher mode routes all DVI and HDMI sources to the HDMI output
- Audio input gain and attenuation
- Front-panel MIC and program audio output volume controls

Model	Version Description	Part Number
MPS 409	HDMI, DVI, VGA, Video & Audio Switcher	60-1012-01

DXP HDMI Series

HDMI Matrix Switchers

DXP 88 HDMI

The Extron DXP HDMI Series are high performance, digital matrix switchers that route HDMI signals from multiple sources to any or all of up to eight HDMI-equipped display devices. These HDMI 1.3 compatible matrix switchers support resolutions up to 1920x1200 and HDTV 1080p/60, and are HDCP compliant, enabling simultaneous distribution of a single source signal to one or more compliant displays. The DXP HDMI Series is designed for ease of integration in applications that require reliable HDMI signal routing. They include several convenience features common to Extron matrix switchers such as the QS-FPC™ - QuickSwitch Front Panel Controller, global presets, IP Link® Ethernet control, and more.

FEATURES

- Available in 4x4, 4x8, 8x4, and 8x8 I/O sizes
- HDMI 1.3 compatible
- HDCP compliant
- EDID Minder™
- Automatic cable equalization for each input to 50 feet (15 meters) at 1920x1200
- Automatic output reclocking
- Provides +5 VDC, 250 mA power on the HDMI outputs for external peripheral devices
- Audio breakaway
- IP Link® Ethernet control
- RS-232 and RS-422 control port

Model	Version Description	Part Number
DXP 44 HDMI	4x4 HDMI Matrix Switcher	60-880-01
DXP 48 HDMI	4x8 HDMI Matrix Switcher	60-1010-01
DXP 84 HDMI	8x4 HDMI Matrix Switcher	60-881-01
DXP 88 HDMI	8x8 HDMI Matrix Switcher	60-882-01

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Extron®

DVI & HDMI

DXP DVI Pro Series

HDCP-Compliant DVI Matrix Switchers

DXP 88 DVI Pro

The Extron DXP DVI Pro Series are high performance, digital matrix switchers that route single link DVI-D signals from multiple sources to any or all of up to eight DVI-equipped display devices. All matrix switchers in the DXP DVI Pro Series support resolutions up to 1920x1200 and HDTV 1080p/60, and are HDCP compliant, enabling simultaneous distribution of a single source signal to one or more compliant displays. The DXP DVI Pro Series is designed for ease of integration in applications that require reliable DVI signal routing. They include several convenience features common to Extron matrix switchers such as the QS-FPC™ - QuickSwitch Front Panel Controller, global presets, IP Link® Ethernet control, and more.

FEATURES

- Available in 4x4, 4x8, 8x4, and 8x8 I/O sizes
- HDCP compliant
- EDID Minder™
- Automatic cable equalization for each input to 50 feet (15 meters) at 1920x1200
- Automatic output reclocking
- Provides +5 VDC, 250 mA power on the DVI outputs for external peripheral devices
- Fully supports HDMI 1.3 signals when used with optional Extron HDMI-DVI adapters
- Audio breakaway
- IP Link® Ethernet control
- RS-232 and RS-422 control port

Model	Version Description	Part Number
DXP 44 DVI Pro	4x4 DVI Matrix Switcher	60-875-01
DXP 48 DVI Pro	4x8 DVI Matrix Switcher	60-1009-01
DXP 84 DVI Pro	8x4 DVI Matrix Switcher	60-876-01
DXP 88 DVI Pro	8x8 DVI Matrix Switcher	60-877-01

MTP/HDMI U R

Twisted Pair Receiver for HDMI, VGA, Video, Audio, and RS-232

The MTP/HDMI U R is a universal Twisted Pair Receiver that consolidates digital and analog video formats into a single product. It works in conjunction with the MTP/HDMI U T A D and HDMI 201 / DVI 201 transmitters to send HDMI or DVI over two twisted pair cables, and with an MTP Series transmitter to send all common analog video formats, from composite video to HDTV and high resolution RGB, as well as mono audio, over one twisted pair cable. The MTP/HDMI U R is HDCP-compliant, and receives bidirectional RS-232 signals through either twisted pair input, for remote control of a display device. It also includes separate variable level and peaking controls and automatic signal format detection for incoming MTP signals. The 1U, half rack width metal enclosure allows for convenient mounting at the display.

FEATURES

- Accepts digital and analog video formats
- Receives HDMI or DVI twisted pair signals
- HDCP compliant
- HDMI 1.3 compatible
- Receives MTP Twisted Pair signals for RGBHV, HD component video, S-video, composite video, mono audio, and RS-232
- Automatically routes incoming analog video signals to appropriate output connectors
- Supports bidirectional RS-232 signals
- Plenum rated - meets UL 2043 for heat and smoke release, excluding power supply

Model	Version Description	Part Number
MTP/HDMI U R	HDMI/VGA/Video Twisted Pair Receiver	60-1048-01

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DVI & HDMI

DCX 1600

HDMI and DVI Modular Digital Matrix Switcher with EDID Minder™

The Extron DCX 1600 represents a new level of digital matrix switching for HDMI and DVI. It combines the simplicity and reliability of a fixed I/O matrix switcher with the convenience and flexibility of a modular matrix switcher. The compact, 4U enclosure accepts any combination of HDMI or DVI boards. Input and output boards are available in 4-port input and 4-port output versions, providing 16 I/O size combinations with sizes from 4x4 to 16x16 for full system customization. All input and output cards are HDCP compliant and can be mixed and matched for fully-interchangeable switching between HDMI and DVI sources and displays. The DCX 1600 is ideal for a wide range of applications that require routing of high-resolution digital video signals, with or without copy protection.

FEATURES

- Available in 16 I/O sizes, 4x4 to 16x16
- Modular, field-upgradeable and hot-swappable design
- HDCP-compliant HDMI and DVI input and output boards
- EDID Minder™
- HDMI 1.3 compatible
- Automatic cable equalization for each input to 50 feet (15 meters) at 1920x1200 when used with Extron HDMI/DVI Pro cables

DCX 1600 Frame

Model	Version Description	Part Number
DCX 1600 Frame	4U, 8-Slot Frame	60-1057-01
DCX 4i DVI Pro	4-Input DVI	70-684-01
DCX 4i HDMI	4-Input HDMI	70-685-01
DCX 4o DVI Pro	4-Output DVI	70-686-01
DCX 4o HDMI	4-Output HDMI	70-687-01

DMS 1600

Modular DVI Matrix Switcher with EDID Minder™

The Extron DMS 1600 represents a new level of matrix switching for DVI. It combines the simplicity and reliability of a fixed I/O matrix switcher with the convenience and flexibility of a modular matrix switcher. The 4U enclosure accepts any combination of DVI boards. Input and output boards are available in 4-port input, 4-port output, and 4x4 I/O versions, providing various I/O size combinations with sizes from 4x4 to 16x16 for full system customization. The DMS 1600 is ideal for a wide range of applications that require routing of high-resolution DVI digital video signals without copy protection.

FEATURES

- Available in I/O sizes from 4x4 to 16x16
- Modular, field-upgradeable and hot-swappable design
- EDID Minder™
- Automatic cable equalization for each input to 100 feet (30 meters) at 1920x1200 when used with Extron DVI Pro cables
- Automatic output reclocking
- Provides +5 VDC, 250 mA power on each output for external peripheral devices
- Supports DDC transmission
- IP Link® Ethernet control

Model	Version Description	Part Number
DMS 1600 Frame	4U, 4-Slot Frame	60-1091-01
DMS 1600 Power Supply Kit	Redundant Power Supply Option	70-710-02
DMS I/O 44 DVI	4x4 I/O DVI	70-741-01
DMS 4i DVI	4-Input DVI	70-741-02
DMS 4o DVI	4-Output DVI	70-741-03
DMS Matrix Blank Plate	Blank Plate - Single I/O Slot	70-651-01

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DVI & HDMI

DMS 3600

Modular DVI Matrix Switcher with EDID Minder™

The Extron DMS 3600 represents a new level of matrix switching for DVI. It combines the simplicity and reliability of a fixed I/O matrix switcher with the convenience and flexibility of a modular matrix switcher. The 8U enclosure accepts any combination of DVI boards. Input and output boards are available in 4-port input, 4-port output, and 4x4 I/O versions, providing various I/O size combinations with sizes from 4x4 to 36x36 for full system customization. The DMS 3600 is ideal for a wide range of applications that require routing of high-resolution DVI digital video signals without copy protection.

FEATURES

- Available in I/O sizes from 4x4 to 36x36
- Modular, field-upgradeable and hot-swappable design
- EDID Minder™
- Automatic cable equalization for each input to 100 feet (30 meters) at 1920x1200 when used with Extron DVI Pro cables
- Automatic output reclocking
- Provides +5 VDC, 250 mA power on each output for external peripheral devices
- Supports DDC transmission
- IP Link® Ethernet control

Model	Version Description	Part Number
DMS 3600 Frame	8U, 9-Slot Frame	60-1092-01
DMS I/O 44 DVI	4x4 I/O DVI	70-741-01
DMS 4i DVI	4-Input DVI	70-741-02
DMS 4o DVI	4-Output DVI	70-741-03
DMS Matrix Blank Plate	Blank Plate - Single I/O Slot	70-651-01

DVI-RGB 200

DVI to Analog RGB Video Interface with EDID Minder™

The Extron DVI-RGB 200 converts single link DVI-D signals to analog RGB signals for convenient integration of digital video sources into conventional analog A/V systems. It is compatible with high resolution computer-video signals up to WUXGA (1920x1200) and HDTV up to 1080p/60.

A buffered loop-through provides DVI-D video to a local monitor. In the absence of a local monitor, EDID Minder™ provides the necessary communication between the DVI-RGB 200 and the DVI input source. EDID Minder is an Extron exclusive technology designed to provide constant and continuous EDID - Extended Display Identification Data management with DVI or VGA source devices. EDID Minder ensures that the source powers up properly and reliably outputs content.

FEATURES

- Converts single link DVI-D to analog RGB video
- Compatible with 28 input rates including WUXGA (1920x1200) and HDTV 1080p/60
- Variable level and peaking controls for analog RGB output
- Buffered local monitor DVI-D output
- EDID Minder™
- DDC routing to local DVI output for EDID and HDCP
- RGBHV, RGBS, or RGsB output

Model	Version Description	Part Number
DVI-RGB 200	DVI to Analog RGB Video Interface	60-1064-01

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DVI & HDMI

MDC HDMI

MicroDigital™ Ultra-Flexible HDMI Cables

Extron MDC HDMI cables are ultra-flexible 4 mm cables designed to transmit HDMI digital video and audio signals. MDC HDMI cables are engineered with Extron-exclusive MicroDigital™ Cable Technology and feature high flexibility, low bend radius, and compact connectors. These cables are ideal for applications with tight equipment racks or A/V presentation furniture, or with wall-mount or pole-mount displays. They are available in lengths of 3 feet and 6 feet and conform to HDMI High Speed and Standard Speed Cable Specifications, respectively.

FEATURES

- Ultra-flexible, low bend radius HDMI cables
- 1080p/60 verified
- 36 AWG copper wire construction
- Gold plated contacts
- NEC CL2 rated, non-plenum cable
- Available in lengths of 3 feet (0.9 m) and 6 feet (1.8 m)
- MDC 3 HDMI
  - Conforms to HDMI High Speed Cable Specifications
  - Supports signals up to 1920x1200 @ 60 Hz and 1080p/60
  - Data rates to 10.2 Gbps
  - Refresh rates to 120 Hz
  - Color depth to 48 bits - 16 bits per color
- MDC 6 HDMI
  - Conforms to HDMI Standard Speed Cable Specifications
  - Supports signals up to 1920x1200 @ 60 Hz and 1080p/60
  - Data rates to 2.25 Gbps
  - Refresh rates to 60 Hz
  - Color depth to 24 bits - 8 bits per color

Model	Version Description	Part Number
MDC 3 HDMI	3' (90 cm) High Speed	26-667-03
MDC 6 HDMI	6' (1.8 m) Standard Speed	26-667-06

MTP/HDMI U T A D

Universal Twisted Pair Transmitter for HDMI, VGA, Video, Audio, and RS-232

The Extron MTP/HDMI U T A D is a Decora®-style, universal twisted pair transmitter for digital and analog video sources. It meets the needs of A/V presentation environments that must support a variety of analog and digital signals. Dedicated inputs are provided to accommodate digital and analog video, audio, and bidirectional RS-232 or IR signals. These signals are transmitted long distances over standard CAT 5-type cabling to remote receiver locations. The MTP/HDMI U T A D offers support of HDMI 1.3 Deep Color, Lip Sync, HD lossless audio, and all common analog video formats. It is ideally paired with the Extron MTP/HDMI U R receiver or an Extron MTP universal receiver or HDMI 201 Series receivers.

FEATURES

- Transmits HDMI, VGA, HD component video, S-video, composite video, audio, and bidirectional RS-232 or IR signals over CAT 5-type cable
- Supports EDID and DDC transmission
- Mounts in an included three-gang Decora-style wallplate
- Compatible with all HDMI 201 and MTP Series twisted pair products
- HDMI Digital Input
  - Transmits HDMI 1.3 Deep Color and RS-232 signals over two CAT 5-type cables
  - HDCP compliant
  - Supports DDC transmission
  - Transmits additional stereo audio signals
  - Bidirectional RS-232/IR pass-through
- Analog Inputs
  - Transmits RGBHV, HD component video, S-video or composite video, plus summed mono audio signals over a single CAT 5-type cable
  - Auto-input switching
  - EDID emulation mode allows proper source operation when no local monitor is present
  - Contact closure remote control

Model	Version Description	Part Number
MTP/HDMI U T A D	MTP/HDMI Universal Transmitter - White	42-166-01
MTP/HDMI U T A D	MTP/HDMI Universal Transmitter - Black	42-166-02

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DISPLAYPORT

DPM-HDMIF

DisplayPort Male to HDMI Female Active Adapter - 6" Pigtail

The Extron DPM-HDMIF is an active, one-way adapter that enables transmission of digital signals from dual-mode DisplayPort equipped sources to HDMI displays. It supports the DisplayPort Version 1.1a specification and resolutions to 1920x1200 @ 60Hz and 1080p/60. For ease of installation, the DPM-HDMIF features an attached 6" (15 cm) pigtail and is ideal for use when integrating DisplayPort-equipped laptop computers and other devices with HDMI equipped projectors or flat-panel displays.

FEATURES

- Provides connectivity between dual-mode DisplayPort equipped sources and HDMI displays
- Passes EDID information from HDMI display to the source
- Supports DCP and HDCP
- 1080p/60 verified
- Conforms to HDMI High Speed Cable Specifications
- Supports signals up to 1920x1200 @ 60 Hz and 1080p/60
- Data rates to 10.2 Gbps
- Color depth of 48 bits - 16 bits per color
- Complies with VESA Interoperability Guideline
- Gold-plated contacts
- 6" (15 cm) pigtail for ease of installation

Model	Version Description	Part Number
DPM-HDMIF	DisplayPort M-HDMIF Active Adapter	26-665-01

DPM-VGAF

DisplayPort Male to VGA Female Active Adapter - 6" Pigtail

The Extron DPM-VGAF is an active, one-way adapter that enables transmission of digital signals from dual-mode DisplayPort sources to VGA displays. It supports the DisplayPort Version 1.1a specification and resolutions to 1920x1200 @ 60Hz and 1080/p/60. For ease of installation, the DPM-VGAF features an attached, 6" (15 cm) pigtail and is ideal for use when integrating DisplayPort-equipped laptop computers and other devices with legacy, high resolution analog projectors or flat-panel displays.

FEATURES

- Provides connectivity between dual-mode DisplayPort equipped sources and VGA displays
- Passes EDID information from VGA display to the source
- 1080p/60 verified
- Supports signals up to 1920x1200 @ 60 Hz and 1080p/60
- Color depth to 24 bits - 8 bits per color
- Complies with VESA Interoperability Guideline
- Gold-plated contacts
- 6" (15 cm) pigtail for ease of installation

Model	Version Description	Part Number
DPM-VGAF	DisplayPort M-VGAF Active Adapter	26-664-01

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USB PRODUCTS

USB Extender

Twisted Pair Extender for USB Peripherals

The USB Extender is a two-piece transmitter and receiver set that enables USB peripheral devices to be remotely located from the host computer up to 450 feet (135 meters) on a single, standard CAT 5/5e/6 or CAT 7 cable. The receiver features a built-in, active four port hub that supplies 5 Volts, 500 mA to each port to power attached devices. This allows power-hungry peripherals such as smart phones, webcams, personal media players, and mass storage devices to be connected and powered or charged at the same time. The USB Extender is ideal for use in applications utilizing the Extron Annotator and remote touchscreen displays, as well as for applications that require the remote location of USB peripherals such as interactive whiteboards, keyboards, mice, and other HID - human interface devices.

FEATURES

- Extends USB peripherals up to 450 feet (135 meters) on one CAT 5/5e/6 or CAT 7 cable
- Supports USB 1.0, 1.1, and 2.0 standards with data transfer rates up to 480 Mbps
- Receiver features an integrated four port hub with 5 Volts, 500 mA available on each port, providing a convenient connection point for multiple USB devices
- Port Status LEDs
- Choice of tabletop and architectural form factors

Model	Version Description	Part Number
Desktop Extenders		
USB Extender Tx	Transmitter	60-871-12
USB Extender Rx	Receiver	60-871-22
AAP Extenders		
USB Extender AAP TX	Black	60-870-12
USB Extender AAP TX	White	60-870-13
USB Extender AAP RX	Black	60-870-22
USB Extender AAP RX	White	60-870-23

USB Extender Transmitter

USB Extender Receiver

USB Extender AAP Transmitter

USB Extender AAP Receiver

SIGNAL PROCESSORS

DVS 510

10 Input Scaling Presentation Switcher

The Extron DVS 510 is a 10 input, multi-format Presentation Scaling Switcher that accepts and scales DVI, RGB, HDTV, and standard definition signals to a common, high resolution output rate. The DVS 510 is HDCP-compliant and features simultaneous DVI and two analog RGB/YUV outputs. It is a true presentation switcher for professional environments, with audio switching for all video input sources, an available 50 watt stereo integrated amplifier, picture-in-picture, and glitch-free switching. The DVS 510 also offers flexible control options including front panel control, Ethernet, RS-232, and IR.

FEATURES

- Integrates DVI, RGB, HDTV, and video sources into presentation systems with audio switching
- HDCP compliant
- RGB, HDTV, and video scaling
- Simultaneous DVI and analog RGB or component video outputs
- EDID Minder™
- PIP - picture-in-picture
- Glitch-free switching
- Power Save Mode
- Audio switching and output volume control
- Available stereo power amplifier model with 25 watts rms per channel into 4 or 8 ohms

Model	Version Description	Part Number
DVS 510	Variable Preamp Output - No Amplifier	60-835-01
DVS 510 SA	2x25 Watt Stereo Power Amplifier	60-835-02

DVS 510 SA

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SIGNAL PROCESSORS

AVT 200HD

Professional ATSC and Cable TV HD Tuner

The Extron AVT 200HD is a high performance tuner for receiving ATSC broadcast signals and delivers HDTV video simultaneously on HDMI, RGBHV, and YUV outputs. Designed for professional A/V applications, the AVT 200HD includes Ethernet, RS-232, USB, and IR remote control capability. It outputs PCM stereo audio or Dolby® Digital with simultaneous S/PDIF and analog balanced and unbalanced stereo outputs. The AVT 200HD also offers clear QAM cable TV decoding and standard definition video outputs. Additional integrator and user-friendly features include a multi-function on-screen display, and channel presets.

FEATURES

- High performance decoding of ATSC and CATV QAM signals
- Simultaneous HDMI, RGBHV, and HD component video outputs
- Dolby® Digital or PCM audio with simultaneous S/PDIF digital and analog balanced/unbalanced stereo audio outputs
- USB, Ethernet, RS-232, and IR remote control
- Multi-function on-screen display with program guide and tuner controls
- Composite video and S-video outputs
- Preset channel selection

Model	Version Description	Part Number
AVT 200 HD	Professional ATSC and Cable TV HD Tuner	60-770-01

DVC 501 SD

Multi-Rate SDI to DVI and RGB/Component Converter

The Extron DVC 501 SD converts SDI, HD-SDI, and 3G-SDI serial digital video signals to DVI-D and analog RGB or component video formats. It features automatic equalization of input signals, extraction of embedded AES3 audio, and RS-232 serial control. The DVC 501 SD is ideal for applications including television production, medical imaging, military simulation, houses of worship, and live events that require interfacing SDI signals from broadcast-type sources to professional / consumer-level displays and signal distribution systems that only accept DVI or analog signals. It is compliant with SMPTE 259M, 292M, 424M, and ITU digital video standards.

FEATURES

- Accepts multi-rate SDI signals up to 2.97 Gbps
- Simultaneous DVI-D and analog RGB / component video outputs
- AES3 audio de-embedding
- Input equalization and reclocking on buffered output
- Internal test patterns for calibration and setup
- Output muting control
- RS-232 control

Model	Version Description	Part Number
DVC 501 SD	3G-SDI to DVI/RGB/Component Converter	60-1033-01

QSS 404

High Resolution Multi-Output Scaler & Processor

The Extron QSS 404 is a compact, multiple output scaler for one to four displays. It can be used to drive simple 2x2 display arrays, creative multi-panel arrays, or non-standard format projection and LED displays. Up to four inputs may be connected, one of which may be scaled and displayed in whole or in part, independently on each output. The ability to vary image scaling, cropping, zooming, and panning allows overlaps to be defined for edge-blended projection applications. The QSS 404's compact size allows it to be mounted behind flat-panel displays. Configure-and-forget or IP-based control make the QSS 404 both simple and flexible.

FEATURES

- High performance Extron image scaling technology
- IP-based remote control or standalone operation
- Input resolutions up to UXGA and HDTV 1080i or 1080p
- Wide selection of output resolutions up to SXGA+ and HDTV 1080i
- Independent scaling engine on each output
- Composite, S-video, RGB, or YPrPb analog HD inputs
- Auto-detection of inputs
- Integrated source switcher
- DVI-I outputs - adapters supplied for analog video
- Included software allows configuration of multiple QSS 404 units into larger systems

Model	Version Description	Part Number
QSS 404	Multi-Output Scaler	60-1115-01
QSS 404 RMK	Multi-Output Scaler Rack Mount Kit	60-1116-01

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VIDEOWALL PROCESSORS

Quantum™ Elite

Scalable, Expandable Videowall Processing System

The Extron Quantum™ Elite is a flexible and scalable videowall processor configurable to support a variety of input, output, and windowing capabilities. It features high performance video scaling technology capable of producing very high quality images. The Quantum Elite offers two card-cage versions that support various combinations of input and output cards for video, RGB or HD, and DVI sources. Hundreds of additional DVI or RGB sources can be streamed over an IP network to the Quantum Elite using the Extron QGE-100 graphics capture encoder. Each DVI-I dual output card supports up to 126 video/graphic source windows, and multiple Quantum Elite card cages can be cascaded to create very large display arrays. A high-speed video bus maintains real-time performance even under heavy loading of inputs.

FEATURES

- Card frame videowall processing system available with eight or 15 slots
- Scalable, expandable systems: add cards or cascade card frames to add more inputs and outputs
- Flexibility to support a variety of input and output configurations
- High speed bus supports real-time video/graphic performance
- Dual DVI/RGB output card supports resolutions up to 1920x1080p
- Up to 126 video/graphic windows per dual output card
- 12-channel video input card supports any mix of composite or S-video sources
- Dual input card for analog RGB or YPrPb
- Dual input card for DVI-D
- Quantum Graphics Encoder supports IP streaming of hundreds of RGB/DVI inputs
- High quality image upscaling and downscaling
- Networked operator control
- Supports digital and analog input signals up to 1920x1200
- Removable flash storage in 15-slot frame eliminates risk of virus and allows simple removal of system data
- Ruggedized real-time operating system and power redundancy features support 24/7 operation
- Performance, scalability, and reliability

Model	Version Description	Part Number
Quantum Elite 615	Quantum Elite System 6U/15 slot (ES3301)	60-1111-01
Quantum Elite 408	Quantum Elite System 4U/8 slot (ES3302)	60-1112-01
QEC O2	Quantum Elite Output Card (ES3310)	70-750-01
QEC I12VID	Quantum Elite 12 Video Input (ES3311)	70-751-01
QEC I2RGB	Quantum Elite 2 RGB Input Card (ES3312)	70-752-01
QEC I2DVI	Quantum Elite 2 DVI Input Card (ES3314)	70-753-01
Quantum Elite Control Software	Quantum Elite Software (ES3200)	29-097-01
QGE-100	Quantum Graphics Encoder (ES3611)	60-1113-01

Quantum™ Connect

Videowall Processing System

The Extron Quantum™ Connect is a videowall processor that delivers the same high quality video scaling, windowing capability, and real-time performance as the Quantum Elite, and is ideal for small to medium-sized videowalls with two to 14 screens in installations with permanent A/V system configurations. It can be populated at the factory with any combination of DVI-I output cards and input cards for video, RGB or HD component video, and DVI sources. The dual output card supports up to 126 video/graphic windows and the high-speed video bus maintains real-time performance even under heavy loading of inputs. The Quantum Connect can accommodate up to 84 video inputs or 14 RGB/DVI inputs, depending on the input and output card configuration.

FEATURES

- Card frame videowall processing system available with eight slots
- Flexibility to support a variety of input and output configurations
- High speed bus supports real-time video/graphic performance
- Dual DVI/RGB output card supports resolutions up to 1920x1080p
- Up to 126 video/graphic windows per dual output card
- 12-channel video input card supports any mix of composite or S-video sources
- Dual input card for analog RGB or YPrPb
- Dual input card for DVI-D
- High quality image upscaling and downscaling
- Supports digital and analog input signals up to 1920x1200
- Easy-to-use configuration and control software included

Model	Version Description
Quantum Connect	Quantum Connect

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AUDIO PRODUCTS & SPEAKERS

XPA 2002

Two Channel Power Amplifiers - 200 Watts Per Channel

The Extron XTRA™ Series XPA 2002 is a 1U, convection-cooled power amplifier delivering two channels of 200 watts rms output power. This professional grade amplifier features a 100 dB signal-to-noise ratio with 0.1% THD+N and weighs only 9 lbs (4 kg). Designed to meet ENERGY STAR®, this amplifier features an Extron exclusive, highly efficient, advanced Class D amplifier design with patented CDRS™ - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifiers. This Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

FEATURES

- Two models with 400 watts rms output power per model:
  - 2 x 200 watts @ 4 ohms; 2 x 100 watts @ 8 ohms
  - 2 x 200 watts @ 70 volts
- ENERGY STAR qualified - XPA 2002-70V
- Professional grade signal-to-noise and THD+N performance
- Extron Patented CDRS - Class D Ripple Suppression
- Convection cooled, fanless operation
- Ultra low inrush current - no need for power sequencing
- Power factor correction
- 1U full rack enclosure
- Auto power-down with fast power-up

Model	Version Description	Part Number
XPA 2002	Two Channel Power Amplifier	60-563-01
XPA 2002-70V	70 V Two Channel Power Amplifier	60-883-02

XPA 2003C

Three Channel Combo Power Amplifier - 200 Watts Per Channel

The Extron XTRA™ Series XPA 2003C is a 1U, convection-cooled, three channel power amplifier with dedicated low and high impedance outputs. It delivers two channels of 200 watts into 4 ohms or 100 watts into 8 ohms plus a third channel of 200 watts into a 70 volt line. This professional grade amplifier features a 100 dB signal-to-noise ratio with 0.1% THD+N and weighs only 9 lbs (4 kg). This ENERGY STAR® qualified amplifier features an Extron exclusive, highly efficient, advanced Class D amplifier design with patented CDRS™ technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifiers. This Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

FEATURES

- 600 watts rms output power:
  - 2 x 200 watts @ 4 ohms; 2 x 100 watts @ 8 ohms
  - 1 x 200 watts @ 70 volts
- ENERGY STAR qualified
- Professional grade signal-to-noise and THD+N performance
- Extron Patented CDRS - Class D Ripple Suppression
- Convection cooled, fanless operation
- Ultra low inrush current - no need for power sequencing
- Power factor correction
- 1U full rack enclosure
- Auto power-down with fast power-up

Model	Version Description	Part Number
XPA 2003C-70V	70 V Three Channel Combo Power Amp	60-848-01

XPA 2004

Four Channel Power Amplifier - 200 Watts Per Channel

The Extron XTRA™ Series XPA 2004 is a 1U, convection-cooled power amplifier delivering four channels of 200 watts into 4 ohms or 100 watts into 8 ohms. This professional grade amplifier features a 100 dB signal-to-noise ratio with 0.1% THD+N and weighs only 9 lbs (4 kg). This ENERGY STAR® qualified amplifier features an Extron exclusive, highly efficient, advanced Class D amplifier design with patented CDRS™ - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifiers. This Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

FEATURES

- 800 watts rms output power:
  - 4 x 200 watts @ 4 ohms; 4 x 100 watts @ 8 ohms
- ENERGY STAR qualified
- Professional grade signal-to-noise and THD+N performance
- Extron Patented CDRS - Class D Ripple Suppression
- Convection cooled, fanless operation
- Ultra low inrush current - no need for power sequencing
- Power factor correction
- 1U full rack enclosure
- Bridgeable outputs
- Auto power-down with fast power-up

Model	Version Description	Part Number
XPA 2004	Four Channel Power Amplifier	60-563-02

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AUDIO PRODUCTS & SPEAKERS

MPA 401

Mono 70/100 V Power Amplifier - 40 Watts

The Extron MPA 401 integrated Mini Power Amplifier provides mono amplification for speaker systems in classrooms and other applications requiring compact, economical audio solutions. It offers ample power for distributed speakers in classrooms, training rooms, and multi-purpose rooms. This ENERGY STAR® qualified amplifier features an Extron exclusive, highly efficient, advanced Class D amplifier design with patented CDRS™ - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifier designs. This Extron exclusive, high efficiency design allows the amplifier to be fanless and operate in environments with little or no ventilation.

FEATURES

- 40 watts rms output power @ 70 volts or 100 volts
- ENERGY STAR® qualified - MPA 401-70V
- Extron Patented CDRS™ - Class D Ripple Suppression
- Front panel bass, treble, and input level controls
- UL 2043 plenum rated
- Balanced and unbalanced buffered audio inputs
- Fanless design
- Auto power-down with fast power-up
- Automatic clip limiter
- Remote volume and mute control port
- Rack-mountable 1U, quarter rack width metal enclosure

Model	Version Description	Part Number
MPA 401-70V	70 V Mono Power Amp - 40 Watts	60-845-01
MPA 401-100V	100 V Mono Power Amp - 40 Watts	60-845-11

MLA VC10 Plus

Volume Control Module

The Extron MLA VC10 Plus Volume Control Module converts RS-232 commands from a control system into voltage or impedance changes to control audio amplifiers with volume and mute control ports. The MLA VC10 Plus is used to mute or make level changes on an MPA Series or half rack XTRA™ Series amplifier from a TouchLink™ Touchpanel system, an RS-232-capable MediaLink® Controller, or other control system. The control module also supports third-party amplifiers that use either voltage or 10k ohm pot control. The MLA VC10 Plus is housed in a 1U, one-eighth rack width metal enclosure for numerous installation options.

FEATURES

- Volume and mute control for the MPA Series or half rack XTRA™ Series amplifiers as well as a wide range of commercial amplifiers
- For use with MediaLink® Controllers with RS-232, TouchLink™ Touchpanel systems, and other control systems
- Adjust amplifier volume level using voltage or resistance control
- Ground isolated, digital circuitry prevents noise in signal path
- Soft Start volume ramping gently restores volume levels during power cycles and unmuting
- Selectable volume taper provides a consistent linear or natural logarithmic feel to volume changes
- High resolution volume control range for smooth volume changes without audible level jumps
- Real-time status LED indicators for setup and troubleshooting
- RS-232 serial control
- Front panel USB configuration port
- Can be powered from the same power supply used for the MediaLink Controller or IPL Series IP Link® Ethernet Control Interface
- Optional external universal ENERGY STAR® qualified power supply, part # 70-775-01

Model	Version Description	Part Number
MLA VC10 Plus	Volume Control Module	60-1090-01

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Extron®

AUDIO PRODUCTS & SPEAKERS

FF 220T

Extron Exclusive Patent Pending Flat Field® Speaker with 70/100 V Transformer

The Extron FF 220T is a full-range sound field speaker for 70 volt/100 volt systems. The FF 220T features Extron patent pending Flat Field Technology which reduces beaming of mid and high frequencies directly under the speaker, delivering consistent sound levels across the listening area. In addition, the FF 220T offers an extraordinarily wide dispersion area of 170 degrees, providing a very wide room coverage pattern which is especially important for rooms with low ceilings. An Extron exclusive, UL 2043 plenum rated, 2' x 2' (61 cm x 61 cm) by 3.25" (8.3 cm) deep aluminized composite enclosure drops into standard suspended ceilings providing quicker installations. With a low profile enclosure, this speaker is an excellent choice for ceiling installations with tight above-the-ceiling space issues.

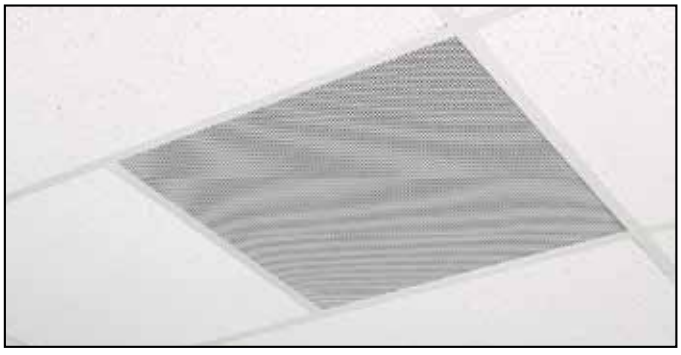
FEATURES

- 2' x 2' (61 cm x 61 cm), 7.8 lb (3.5 kg) drop-in ceiling tile speaker for suspended ceilings
- UL 2043 plenum rated enclosure
- Extron patent pending Flat Field® Technology for consistent sound levels across the listening area, reducing the number of speakers required
- 3" (7.6 cm) horn-loaded, full-range driver provides extended low frequency response
- White perforated grille matches appearance of air conditioning vents
- 8 ohm direct or 70/100 volt operation with 16, 8, 4, 2, and 1 watt selectable power taps accessed via speaker wiring connections inside the rear panel
- Frequency response: 68 Hz to 18 kHz
- 16 watts continuous pink noise, 32 watts continuous program
- Wide 170° dispersion
- 3.25" (8.3 cm) deep low profile enclosure for plenum environments
- 5 year parts and labor warranty
- Patent Pending; designed and manufactured by Extron

Learn more about
Extron's Flat Field® Technology
Download the white paper at
www.extron.com/flatfieldpaper

Model	Version Description	Part Number
FF 220T	Ceiling - 2x2 Drop-In, Transformer, Pair	42-141-03

Installation in three easy steps: (1) Remove ceiling tile, (2) Make wiring connections, (3) Place speaker on grid and anchor with seismic tabs. Trim ceiling tile, if neccesary, to fit with provided T-bar.



The inconspicuous white grille allows the FF 120T or FF 220T to blend into the ceiling.

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MATRIX SWITCHERS

Extron Matrix 1K

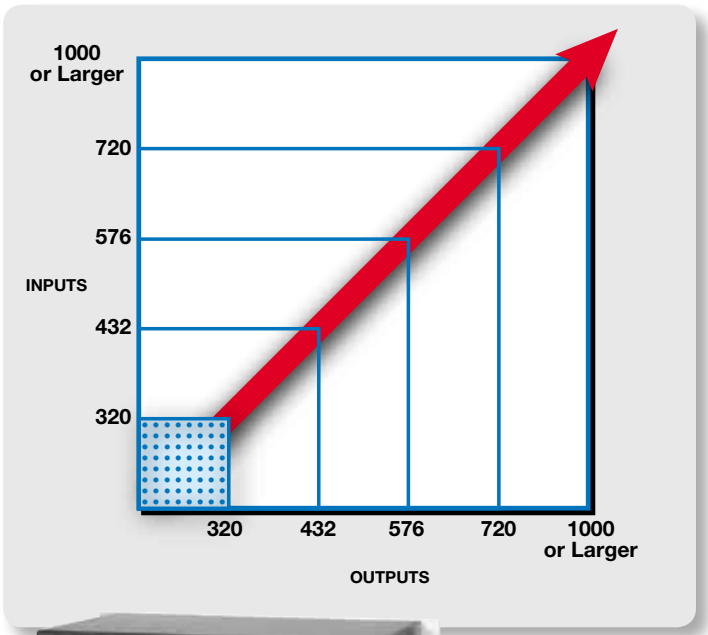
Large-Scale Matrix Switcher Program

When it comes to large-scale matrix switching solutions for fiber optic, digital, or analog signal routing applications, Extron has you covered. Through the Matrix 1K Program, you can create custom, scalable matrix switchers in all common signal types with I/O sizes up to 1000x1000 and beyond. Extron Matrix 1K switchers are designed and engineered to your specific project requirements. Matrix 1K digital and fiber optic matrix switchers start at 320x320, while Matrix 1K analog matrix switchers start at 128x128. Regardless of the size you need, Extron Matrix 1K switchers work with the same ease of control and day in, day out reliability you've come to expect from Extron.

To begin the process of configuring your Extron Matrix 1K switcher, contact your local Extron Customer Support Representative. An Extron Applications Engineer will be assigned to your project and will work with you to ensure your complete satisfaction.

Matrix 1K Product Commissioning

Extron provides proactive, on-site product commissioning with every Matrix 1K purchase. Matrix 1K commissioning provides you with an extra level of service, ensuring that the system you design and install meets your expectations and those of your client.



Extron Matrix 1K switchers offer very large scale routing capability to handle the largest, most complex venues.

Extron Matrix 1K switchers can be custom designed in sizes from 128x128 up to 1000x1000 and beyond.

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Extron®

TWISTED PAIR

MTPX Plus 6400 Series

MTP Twisted Pair Matrix Switcher with IP Link for RGBHV, Video, Audio, and RS-232

The Extron MTPX Plus 6400 Series represents the next level of large-scale twisted pair matrix switching, building on the success of the MTPX Plus Series product line. The MTPX Plus 6400 Series simplifies the design and integration of complex twisted pair matrix switching systems by offering advanced, integration-friendly features that dramatically reduce costs associated with rack space, cabling, and installation. The MTPX Plus 6400 Series is available in 12 different I/O sizes, from 16x48 to 64x64. In addition to offering all of the same features found in the MTPX Plus Series, the MTPX Plus 6400 Series provides EDID Minder™ for local inputs and outputs, RS-232 insertion from the Ethernet port to all MTP outputs, and switchable video pre-peaking on all outputs.

FEATURES

- Available in 12 different I/O sizes, from 16x48 to 64x64
- Dynamic skew equalization
- RS-232 insertion from the Ethernet port to all MTP outputs
- Local RS-232 insertion ports
- EDID Minder™
- Video level and peaking compensation
- Local high resolution video inputs and outputs
- Switchable video pre-peaking on all outputs
- Compatible with Extron MTP products

Model	Version Description	Part Number
MTPX Plus 6464	64x64	60-1042-01
MTPX Plus 6448	64x48	60-1041-01
MTPX Plus 6432	64x32	60-1040-01
MTPX Plus 6416	64x16	60-1046-01
MTPX Plus 4864	48x64	60-1039-01
MTPX Plus 4848	48x48	60-1038-01
MTPX Plus 4832	48x32	60-1037-01
MTPX Plus 4816	48x16	60-1047-01
MTPX Plus 3264	32x64	60-1036-01
MTPX Plus 3248	32x48	60-1035-01
MTPX Plus 1664	16x64	60-1044-01
MTPX Plus 1648	16x48	60-1045-01

The MTPX Plus 6400 matrix switchers leverage the many benefits of twisted pair signal distribution for large scale installations where multiple signals must be routed long distances to multiple displays located through the facility.

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TWISTED PAIR

MTP/HDMI U T A D

Universal Twisted Pair Transmitter for HDMI, VGA, Video, Audio, and RS-232

The Extron MTP/HDMI U T A D is a Decora®-style, universal twisted pair transmitter for digital and analog video sources. It meets the needs of A/V presentation environments that must support a variety of analog and digital signals. Dedicated inputs are provided to accommodate digital and analog video, audio, and bidirectional RS-232 or IR signals. These signals are transmitted long distances over standard CAT 5-type cabling to remote receiver locations. The MTP/HDMI U T A D offers support of HDMI 1.3 Deep Color, Lip Sync, HD lossless audio, and all common analog video formats. It is ideally paired with the Extron MTP/HDMI U R receiver or an Extron MTP universal receiver or HDMI 201 Series receivers.

FEATURES

- Transmits HDMI, VGA, HD component video, S-video, composite video, audio, and bidirectional RS-232 or IR signals over CAT 5-type cable
- Supports EDID and DDC transmission
- Mounts in an included three-gang Decora-style wallplate
- Compatible with all HDMI 201 and MTP Series twisted pair products
- HDMI Digital Input
  - Transmits HDMI 1.3 Deep Color and RS-232 signals over two CAT 5-type cables
  - HDCP compliant
  - Supports DDC transmission
  - Transmits additional stereo audio signals
  - Bidirectional RS-232/IR pass-through
- Analog Inputs
  - Transmits RGBHV, HD component video, S-video or composite video, plus summed mono audio signals over a single CAT 5-type cable
  - Auto-input switching
  - EDID emulation mode allows proper source operation when no local monitor is present
  - Contact closure remote control

Model	Version Description	Part Number
MTP/HDMI U T A D	MTP/HDMI Universal Transmitter - White	42-166-01
MTP/HDMI U T A D	MTP/HDMI Universal Transmitter - Black	42-166-02

MTP R 15HD RSA D

MTP Twisted Pair Receiver for VGA, Audio, and RS-232 - Decora® Wallplate

The MTP R 15HD RSA D is a Decora-style MTP Twisted Pair receiver that accepts high resolution computer video, mono audio, and RS-232 signals over a single CAT 5-type cable. It is compatible with resolutions up to 1920x1200 WUXGA, and will support cable runs of 600 feet (185 meters) or more with XGA signals, and 450 feet (135 meters) or more with UXGA signals. The MTP R 15HD RSA D also offers separate continuously variable level and peaking controls to compensate for signal loss over long cable runs. It is available in black or white.

FEATURES

- Receives high resolution video, mono audio, and RS-232 signals 600' (185 meters) or more over a single CAT 5-type cable
- Mounts in an included Decora-style wallplate
- Supports RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, and composite video
- Automatic detection and routing of audio and RS-232 signals to the appropriate output
- Separate continuously variable level and peaking controls
- Compatible with any Extron MTP transmitter

Model	Version Description	Part Number
MTP R 15HD RSA D	Receiver, Decora Wallplate - White	60-929-01
MTP R 15HD RSA D	Receiver, Decora Wallplate - Black	60-929-02

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ARCHITECTURAL CONNECTIVITY

Cable Cubby AC Power Module

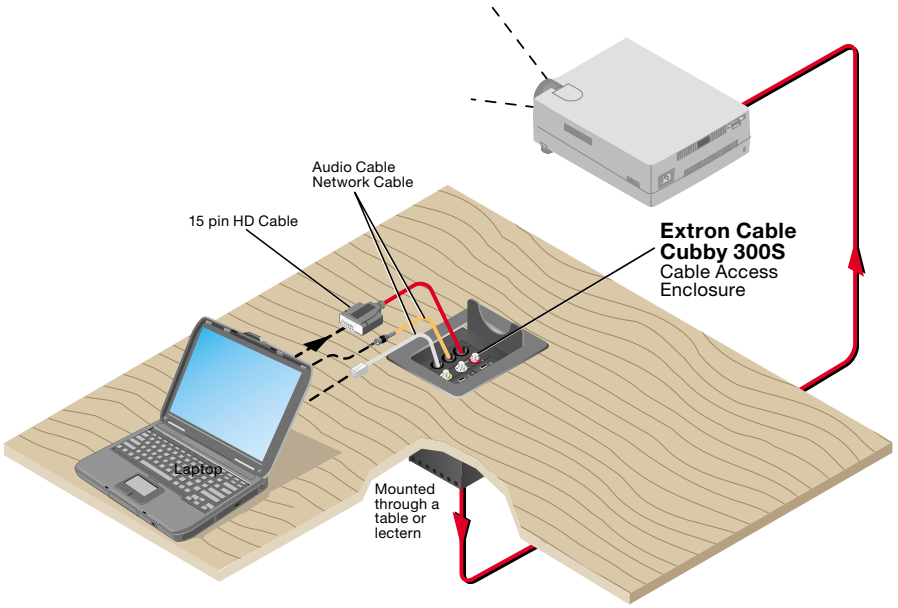
Unswitched AC Power Module for Use with Select Cable Cubby and TLP 350CV Enclosures - Italy Outlet

The Extron Italy Cable Cubby® Power Module is a triple space AAP-sized power module. The module features one unswitched AC power outlet designed to be mounted into selected Cable Cubby 300C, 300S, 600, and 800 enclosures, and may also be used with the TLP 350CV TouchLink™ 3.5" Cable Cubby® Touchpanel. The Italy Cable Cubby Power Module accepts an Italian-style AC plug with 3 aligned pins, and is also compatible with Schuko-type and 2-pin Euro AC plugs.

FEATURES

- Designed to work with Cable Cubby 300C, 300S, 600, and 800 Enclosures
- Compatible with TLP 350CV TouchLink™ 3.5" Cable Cubby® Touchpanel
- One unswitched AC power outlet
- Also accepts 2-pin Europlug and Schuko-type AC plugs
- UL/c-UL listed and CE compliant when installed in a Cable Cubby enclosure
- Three AAP openings required

Model	Version Description	Part Number
Cable Cubby AC Power Module	Italy Outlet	70-738-01



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ARCHITECTURAL CONNECTIVITY

Cable Cubby® 300S

Furniture-Mountable Enclosure with Square Bezel for Cables, AAPs, and AC Power Outlets

The Extron Cable Cubby® 300S is now available in a new, no power outlet version for applications that do not require AC power. In addition, it can be customized with the addition of one or more Cable Cubby Power Modules. The Cable Cubby 300S is also available pre-configured with a choice of discreet AC outlets for the US, Central Europe, and other major world markets The Extron Cable Cubby® 300S is a durable, metal enclosure that can be mounted into a tabletop or other flat surface. When the cables are not being used, they can be stored out of sight while remaining connected to the system, offering a discreet way to access cables and connection points as they are needed.

FEATURES

- Accommodates up to five single-space AAP - Architectural Adapter Plates, depending on version
- Offers convenient access to cable connections
- Top surface available in black anodized or brushed aluminum finishes
- Optional AC power outlets available for US, Europe, and other major world markets
- UL/c-UL listed and CE compliant

Shown with optional AC power module

Model	Version Description	Part Number
Cable Cubby 300S	No AC Outlet - Black Anodized	60-712-00
Cable Cubby 300S	No AC Outlet - Brushed Aluminum	60-712-10

Cable Cubby® 300C

Furniture-Mountable Enclosure with Circular Bezel for Cables, AAPs, and AC Power Outlets

The Extron Cable Cubby® 300C is now available in a new, no power outlet version for applications that do not require AC power. In addition, it can be customized with the addition of one or more Cable Cubby Power Modules. The Cable Cubby 300C is also available pre-configured with a choice of discreet AC outlets for the US, Central Europe, and other major world markets. The Extron Cable Cubby® 300C is a durable, metal enclosure that can be mounted into a tabletop or other flat surface. When the cables are not being used, they can be stored out of sight while remaining connected to the system, offering a discreet way to access cables and connection points as they are needed.

FEATURES

- Accommodates up to five single-space AAP - Architectural Adapter Plates, depending on version
- Offers convenient access to cable connections
- Top surface available in black anodized or brushed aluminum finishes
- Optional AC power outlets available for US, Europe, and other major world markets
- UL/c-UL listed and CE compliant

Shown with optional AC power module

Model	Version Description	Part Number
Cable Cubby 300C	No AC Outlet - Black Anodized	60-713-00
Cable Cubby 300C	No AC Outlet - Brushed Aluminum	60-713-10

Cable Cubby® 600

Furniture-Mountable Enclosure for Cables, AAPs, and AC Power Outlets

The Extron Cable Cubby® 600 is now available in a new, no power outlet version for applications that do not require AC power. In addition, it can be customized with the addition of one or more Cable Cubby Power Modules. The Cable Cubby 600 is also available pre-configured with a choice of discreet AC outlets for the US, Central Europe, and other major world markets. The Extron Cable Cubby® 600 is a durable, metal enclosure that can be mounted into a tabletop or other flat surface. The Cable Cubby's lid slides out of the way when it is fully open and lifts easily to close. When the cables are not being used, they can be stored out of sight while remaining connected to the system, offering a discreet way to access cables and connection points as they are needed.

FEATURES

- Accommodates up to eight single-space AAP - Architectural Adapter Plates, depending on version
- Top surface available in black anodized or brushed aluminum finishes
- Optional AC power outlets available for US, Europe, and other major world markets
- UL/c-UL listed and CE compliant

Shown with optional AC power module

Model	Version Description	Part Number
Cable Cubby 600	No AC Outlet - Black Anodized	60-714-00
Cable Cubby 600	No AC Outlet - Brushed Aluminum	60-714-10

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ARCHITECTURAL CONNECTIVITY

Cable Cubby® 800

Furniture-Mountable Enclosure for Cables, AAPs, and AC Power Outlets

The Extron Cable Cubby® 800 is now available in a new, no power outlet version for applications that do not require AC power. In addition, it can be customized with the addition of one or more Cable Cubby Power Modules. The Cable Cubby 800 is also available pre-configured with a choice of discreet AC outlets for the US, Central Europe, and other major world markets. The Extron Cable Cubby® 800 is an elegant, metal enclosure that can be mounted into a tabletop or other flat surface. The Cable Cubby's lid slides out of the way when it is fully open and lifts easily to close. When the cables are not being used, they can be stored out of sight while remaining connected to the system, offering a discreet way to access cables and connection points as they are needed.

FEATURES

- Accommodates up to ten single-space AAP - Architectural Adapter Plates, depending on version
- Top surface available in black anodized or brushed aluminum finishes
- Optional AC power outlets available for US, Europe, and other major world markets
- UL/c-UL listed and CE compliant

Shown with optional AC power module

Model	Version Description	Part Number
Cable Cubby 800	No AC Outlet - Black Anodized	60-715-00
Cable Cubby 800	No AC Outlet - Brushed Aluminum	60-715-10

Retractor

Cable Retraction System for Cable Cubby® Enclosures

The Extron Retractor is a unique, patent-pending cable retraction and management system designed to work with new or previously installed Cable Cubby® enclosures. The Retractor provides discreet, convenient access to A/V cables, improving the management of cables within the Cable Cubby. The Retractor is available in versions to support most A/V and data signal types including VGA, Network, PC Audio, USB, DVI, or HDMI. The cables extend up to three feet (90 cm) and are held securely in place at the desired length.

FEATURES

- Patent-pending cable retraction system maintains signal integrity
- Compatible with most Cable Cubby enclosures
- Accept up to 3 Retractor modules on each side of the enclosure, 6 total
- Cables extend up to three feet (90 cm)
- Holds cable securely in place at a user-defined length
- Simple push-button release retracts cable into Cable Cubby enclosure after use
- Flexible installation alternatives
- Available in a variety of commonly-used A/V and data connectors
- Optional bracket for Cable Cubby 200 installation available

Retractor VGA shown installed in Cable Cubby 800

Retractor DVI

Model	Version Description	Part Number
Retractor VGA	VGA Male to Male	70-678-01
Retractor PC Audio	3.5 mm Stereo Audio M to M	70-678-02
Retractor Network	Network Cat 5e	70-678-03
Retractor HDMI	HDMI Male to Male	70-678-04
Retractor USB	USB A to USB A	70-678-05
Retractor DVI	DVI Male to Male	70-678-06
Retractor Filler Module	Filler Module	70-678-08
Retractor Mounting Bracket Kit	For Horizontal Mounting Applications	70-678-00
Cable Cubby 200 Bracket	Holds two Retractor modules	70-678-10

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ARCHITECTURAL CONNECTIVITY

WPC 160 EU

Wallplate with Captive Screw Outputs for Computer Video, PC Audio, and USB - European Junction Boxes

The Extron WPC 160 EU wallplate is specifically designed for a standard European single junction box. It features connectors for computer video, audio, and USB with pass-through output on captive screw connectors for ease of integration in standard, 40 mm deep junction boxes. The Extron WPC 160 EU wallplate is made of metal and is available in RAL9010 white.

FEATURES

- Computer video: 15-pin female to captive screw connectors
- PC audio: 3.5 mm stereo mini jack to captive screw connectors
- USB: USB A to captive screw connectors
- Selectable ID Bit termination assures that the correct video signals are sent to the display device
- Signals passed through unprocessed

Model	Version Description	Part Number
WPC 160 EU	EU gang - RAL9010 White	70-715-01

WPC 160 MK

Wallplate with Captive Screw Outputs for Computer Video, PC Audio, and USB - MK Junction Boxes

The Extron WPC 160 MK wallplate is specifically designed for use with an MK Electric type British standard one-gang wall box. It features connectors for computer video, audio, and USB with pass-through output on captive screw connectors for ease of integration in standard, 40 mm deep junction boxes. The Extron WPC 160 MK wallplate is made of metal and is available in white.

FEATURES

- Computer video: 15-pin female to captive screw connectors
- PC audio: 3.5 mm stereo mini jack to captive screw connectors
- USB: USB A to captive screw connectors
- Selectable ID Bit termination assures that the correct video signals are sent to the display

Model	Version Description	Part Number
WPC 160 MK	MK gang - White	70-716-01

WPD 110

HDMI Pass-Through Wallplate - Decora®

The Extron WPD 110 wallplate is specifically designed for a standard one-gang sized junction box. It features a pass-through HDMI Female to HDMI Female connector on 10" pigtail for a simple and elegant integration solution. The WPD 110 mounts in a Decora®-style wallplate and includes a white faceplate.

FEATURES

- HDMI female connector to HDMI female on 10" pigtail
- Mounts in an included Decora®-style wallplate and mud ring
- Includes a white Decora faceplate
- Signals passed through unprocessed
- One-gang size

Model	Version Description	Part Number
WPD 110	HDMI - Decora Faceplate	70-719-03

WPD 110 A

HDMI and Stereo Audio Pass-Through Wallplate - Decora®

The Extron WPD 110 A wallplate is specifically designed for a standard one-gang sized junction box. It features a pass-through HDMI Female to HDMI Female connector on 10" pigtail along with a 3.5 mm stereo mini jack to support stereo audio, providing a simple and elegant integration solution. The WPD 110 A mounts in a Decora®-style wallplate and includes a white faceplate.

FEATURES

- HDMI female to HDMI female connector on 10" pigtail
- Computer audio: 3.5 mm stereo mini jack to solder tabs
- Mounts in an included Decora®-style wallplate and mud ring
- Includes a white Decora faceplate
- Signals passed through unprocessed

Model	Version Description	Part Number
WPD 110 A	HDMI with Audio - Decora Faceplate	70-726-03

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Extron®

ARCHITECTURAL CONNECTIVITY

AVTrac®

Low Profile Floor-Mount Raceway System for A/V Connectivity

The Extron AVTrac® is a low profile, floor-mounted raceway system with a modular AAP - Architectural Adapter Plate enclosure. Two 4-foot (1.2 m) tracks combine to create the 8-foot (2.4 m) raceway designed for use in any environment in which A/V devices cannot be positioned near a wall or other area where power, data, and A/V connections are traditionally located. AVTrac is a discreet, cost-effective alternative to floor coring for poke-through devices, trenching for floor boxes, and raised access flooring. AVTrac is ideal for use in classrooms, training centers and other reconfigurable spaces, and corporate boardrooms, as well as legacy installations and architecturally-sensitive environments.

FEATURES

- Low profile cable raceway system
- Cost-effective alternative to floor coring and trenching
- ADA compliant 8-foot (2.4 m) total length cable raceway and side ramps
- Modular enclosure with 2 double-space and 2 triple-space AAP openings
- Easy access cover panel
- AC power modules available for US, Europe, and other major world markets

Model	Version Description	Part Number
AVTrac 482C	Carpet Inlay, w/AC US, Prewired Conduit	42-155-24A
AVTrac 482R	Rubber Strip, w/AC US, Prewired Conduit	42-156-24A

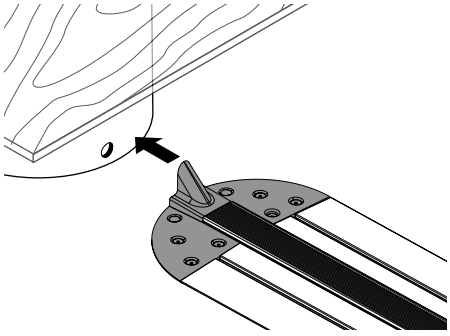
AVTrac® Cable Pass-Through Kit

Table Leg Kit for AVTrac

The AVTrac® Cable Pass-Through Kit mounts at the end of an AVTrac Extension Kit and is designed for applications where cables need to be passed from the wall to a hollow table leg, desk, or a fixed lectern location. The Cable Pass-Through Kit can also be used at either end of an AVTrac Extension Kit to allow the seamless transition of cables from one table leg to the other. The Cable Pass-Through Kit minimizes the number of termination points and corresponding signal loss by allowing continuous cable runs between primary connection points within the system.

FEATURES

- Provides cable transition into or between hollow table legs
- Designed for use with the AVTrac Extension Kit
- All necessary materials are included for installation



Model	Version Description	Part Number
AVTrac INST CPT	Cable Pass-through Kit for AVTrac	70-714-02

MOUNTING HARDWARE

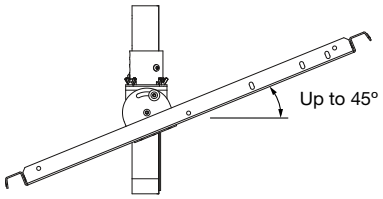
PCM AM

Angled Mount Kit

The PCM AM Angle Mount Kit is designed for use with the current versions of the PCM 240 or the PCM 340 Ceiling Mounts. It provides up to 45 degrees of adjustment for projector mounting poles and allows the projector to hang level in angled suspended ceiling applications. Available in white.

FEATURES

- Designed for use with Extron PCM Projector Ceiling Mounts
- Provides up to 45 degrees of adjustment
- Enables projector to hang level from angled suspended ceilings
- Kit contains one swivel bracket and one angle bracket
- Available in white



Model	Version Description	Part Number
PCM AM	Angle mount kit for PCM 340	70-680-03

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BULK CABLES & CONNECTORS

DTP26

26 AWG Shielded Digital Twisted Pair Cable

Extron DTP26 cable provides enhanced signal transmission for Extron digital twisted pair extenders, including the DVI 201 Series, DVI DL 201, and HDMI 201 Series. With Extron DTP26 cable, high resolution digital video signals up to 1920x1200 and 1080p/60 can be extended to 150 feet, versus 100 feet with standard CAT 5e cable.Extron DTP26 cable consists of four individually shielded copper pairs and an overall braided shield. The cable is constructed using 26 AWG solid copper conductors, utilizing an S/FTP shielded foil twisted pair design for superior noise immunity and high performance. Extron DTP26 cable is available in plenum and non-plenum, 1,000 foot spools in self-dispensing packaging. DTP RJ45 shielded plugs are also available, sold in packages of 10.

FEATURES

- Engineered for use with Extron digital twisted pair extension products including DVI 201 Series, DVI DL 201, and HDMI 201 Series transmitters and receivers
- S/FTP design with individually foil wrapped conductor pairs and overall braided shield for noise immunity and low crosstalk
- Facilitates extension of 1920x1200 and 1080p/60 digital video signals up to 50% farther than standard CAT 5e cable
- 26 AWG solid copper conductors
- Plenum and non-plenum rated versions available
- DTP26 RJ45 shielded plugs also available

Model	Version Description	Part Number
DTP26/1000	Non-Plenum 1000' (300 m) spool	22-214-03
DTP26P/1000	Plenum 1000' (300 m) spool	22-215-03

DTP RJ-45 Plug

Shielded RJ-45 Plug for Extron DTP26 Digital Twisted Pair Cable

Extron DTP RJ-45 shielded plugs are engineered for use with Extron DTP digital twisted pair cable. The combination of the DTP RJ-45 shielded plug and DTP26 digital twisted pair cable provides enhanced performance when used with Extron digital twisted pair extension products such as the DVI 201, DVI DL 201, and HDMI 201. DTP RJ45 shielded plugs are ideal for high EMI/RFI environments where signal integrity is critical. The integrated conductor alignment guide separates the individual conductor pairs for quick and easy termination.

FEATURES

- Engineered for use with Extron DTP26 digital twisted pair cable
- Metal strain relief and ground bonding
- Ideal for high EMI/RFI environments
- Conductor alignment guide reduces crosstalk and signal interference
- Gold plated contacts

Model	Version Description	Part Number
DTP RJ-45 Plug	Qty. 10	101-005-01

Europe
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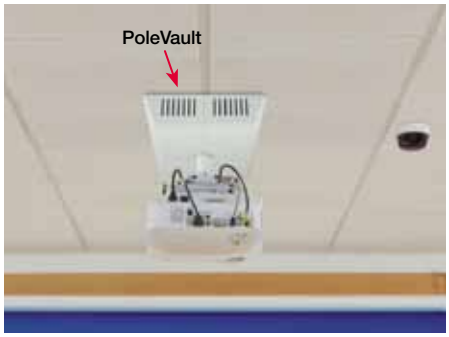
CLASSROOM A/V SYSTEMS

PoleVault® Systems

Complete Pole Mounted Systems for Video and Audio Switching, Control, and Projector Mounting



Extron PoleVault® Systems are easy-to-use, network-enabled, all inclusive packages, making them ideal for schools, universities, and corporate environments. PoleVault Systems use economical twisted pair cable for transmitting signals and include network connectivity for Web-based A/V resource management, monitoring, and control.

FEATURES

- Complete, centralized A/V switching and control systems with stereo amplification
- NEW Optional HDMI input enables direct connection of high-definition video sources and provides support for future technologies
- Securely mounts and conceals switching and audio amplification components above the projector
- Extron exclusive patent-pending Flat Field® speakers deliver consistent sound levels across the listening area
- Powerful 50 watt rms audio amplifier
- Energy Efficient design offers Extron exclusive Auto Power Save and Standby modes designed to lower energy usage and reduce operating costs
- VoiceLift Microphone option evenly distributes the teacher's voice throughout the room
- Easy-to-use MediaLink controller included
- Systems use CAT 5-type cable for quick and easy connections and low-cost installation
- A/V Input wallplates use active, balanced twisted pair transmission which is resistant to signal loss and interference
- Simplifies setup; no programming required
- Network connectivity for web-based monitoring and rapid problem resolution

Model	Version Description	
PVS 200	Two Input System	See www.extron.com/CC
PVS 300	Three Input System	See www.extron.com/CC
PVS 400	Four Input System	See www.extron.com/CC

WallVault® Systems

Complete A/V Switching and Control Systems for Wall-Mounted Short-Throw Projectors

Extron WallVault® Systems are easy-to-use, network-enabled, all inclusive packages, making them ideal for schools, universities, and corporate environments. WallVault Systems use economical twisted pair cable for transmitting signals and include network connectivity for Web-based A/V resource management, monitoring, and control.

FEATURES

- Complete, centralized A/V switching and control systems with stereo amplification
- NEW Optional HDMI input enables direct connection of high-definition video sources and provides support for future technologies
- NEW Short-Throw Projector Mount and Equipment Enclosure provides a single solution for mounting the projector along with a complete range of audio and video products
- Securely mounts and conceals switching and audio amplification components to the wall
- Energy Efficient design offers Extron exclusive Auto Power Save and Standby modes designed to lower energy usage and reduce operating costs
- Easy-to-use MediaLink controller included
- Systems use CAT 5-type cable for quick and easy connections and low-cost installation
- Extron VoiceLift® Microphone option amplifies and evenly distributes the teacher's voice throughout the classroom
- Simplifies setup; no programming required
- Network connectivity for web-based monitoring and rapid problem resolution
- Tamper-resistant, theft-deterrent design
- Auto projector shut-off saves power and extends lamp life

Model	Version Description	Part Number	
WVS 200	Two Input WallVault System	42-149-03	See www.extron.com/CC
WVS 300	Three Input WallVault System	42-150-03	See www.extron.com/CC
WVS 400	Four Input WallVault System	42-151-03	See www.extron.com/CC

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CLASSROOM A/V SYSTEMS

VoiceLift® Microphone Systems

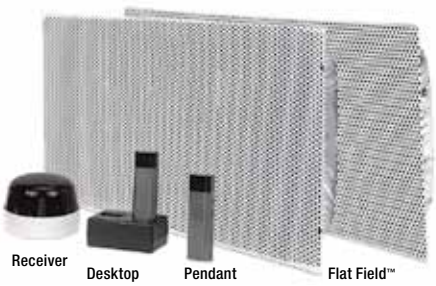
Complete Microphone Systems for Classroom Voice Amplification

The Extron VoiceLift Microphone System is a voice amplification system specifically developed for K-12 classrooms. The VoiceLift Microphone System enables the creation of a "sound field" that allows a teacher's voice to be heard clearly throughout the classroom. Studies show that use of a sound field system results in increased student achievement and a reduction in teacher health issues related to voice fatigue. Each system contains all the components necessary to evenly distribute the teacher's voice throughout the classroom, including pendant microphone, IR receiver, switcher/amplifier, speakers and cables.

FEATURES

- Complete infrared wireless microphone systems
- Integrated 50 watt rms audio amplifier for stereo or dual mono audio
- Upgrades easily and affordably to a complete PoleVault® or WallVault® classroom A/V switching, mounting, and control system
- Energy efficient design offers Extron exclusive Auto Power Save and Standby modes designed to lower energy usage and reduce operating costs
- Includes one pair of Extron patent pending Flat Field® speakers for consistent sound levels across the listening area
- Lightweight pendant microphone operates for an entire school day on a single, rechargeable AA battery or standard AA battery
- Supports up to two microphones per classroom for team teaching or student participation
- Instant Alert e-mail messaging capability enables the teacher to request assistance with the push of a button when used as part of a PoleVault or WallVault System
- Volume adjustment and auxiliary audio input on the microphone

PVS 305SA
Switcher / Amplifier



Receiver

Desktop Charging Station and Second Pendant Microphone

Pendant Microphone

Flat Field™ Speakers

Model	Version Description	
VLS 1000	Single Pendant Complete VoiceLift System	See www.extron.com/CC
VLS 2000	Dual Pendant Complete VoiceLift System	See www.extron.com/CC

VLH 102

VoiceLift® Handheld Microphone

The Extron VLH 102 Handheld Microphone is an infrared wireless microphone with a cardioid capsule and durable polycarbonate enclosure for use with Extron VoiceLift® classroom sound field systems. Designed for student use in the classroom, the easy-to-hold lightweight microphone features an anti-roll collar at the capsule to keep the microphone from rolling off flat surfaces and helps prevent the IR emitters from being blocked during use. The VLH 102 is ideal for use in applications that require a pass around microphone for student presentations and secondary microphone applications such as team teaching and guest speakers.

FEATURES

- Durable polycarbonate design
- Cardioid-shaped microphone pick-up pattern
- Easy-to-hold lightweight microphone with anti-roll collar
- On/Off/Mute switch for easy operation
- Auxiliary 3.5 mm mini audio input jack
- Rechargeable 2500 mAh NiMH AA battery included; also supports a standard alkaline AA battery

Model	Version Description	
VLH 102	Handheld Mic for VoiceLift Systems	See www.extron.com/CC

Europe
+31.33.453.4040 / +800.3987.6673
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CLASSROOM A/V SYSTEM OPTIONS

Digital Video Input

HDMI Video and Stereo Audio Input for PoleVault and WallVault Systems – Decora Wallplate

The Digital Video Input is designed to work exclusively with as part of a PoleVault® or WallVault® System. It accepts HDMI Video on a female HDMI connector and transmits the signal to the projector on a HDMI cable. Stereo audio is supported on a 3.5 mm stereo mini jack. The Digital Video Input is HDCP compliant and supports DDC transmission.

FEATURES

- Enables direct connection of high-definition video sources and provides support for future technologies
- Intended for use with projectors that support HDMI video
- Video input on female HDMI connector and audio input on 3.5 mm stereo mini jack
- HDCP compliant
- Supports DDC transmission

Model	Version Description	
Digital Video Input	HDMI – Decora Wallplate	See www.extron.com/CC

PVT RGB D

PoleVault VGA Video and Stereo Audio Input - Decora® Wallplate

The PVT RGB D VGA Video and Stereo Audio Input is designed to work exclusively with the PoleVault Switcher as part of the PoleVault® or WallVault® System. The PVT RGB D accepts a VGA computer-video signal on a female 15-pin HD connector and stereo audio on a 3.5 mm stereo mini jack and transmits the signals to the switcher on two Cat 5 twisted pair cables. Extron-exclusive EDID Minder™ technology is included for managing Extended Display Identification to ensure that the source device outputs at the appropriate resolution.

FEATURES

- Available exclusively as part of a PoleVault® or WallVault® System
- Transmits VGA computer video and stereo audio signals to a PoleVault switcher over two CAT 5-type cables
- NEW Extron exclusive EDID Minder™ technology ensures that the source device outputs at the appropriate resolution for the display
- IR pass-through provides control connections for DVD/VCR players, tuners, switchers, or other IR controllable devices
- Audio pass-through supplies PoleVault audio content to podcasting or assistive listening systems

Model	Version Description	
PVT RGB D	VGA and EDID Minder - Decora	See www.extron.com/CC

PVT RGB AAP

PoleVault VGA Video and Stereo Audio Input - AAP Version

The PVT RGB AAP VGA Video and Stereo Audio Input is designed to work exclusively with the PoleVault Switcher as part of a PoleVault® or WallVault® System. The PVT RGB AAP accepts a VGA computer-video signal on a female 15-pin HD connector and stereo audio on a 3.5 mm stereo mini jack and transmits the signals to the switcher on two twisted pair cables. Extron-exclusive EDID Minder™ technology is included for managing Extended Display Identification to ensure that the source device outputs at the appropriate resolution.

FEATURES

- Available exclusively as part of a PoleVault® or WallVault® System
- Transmits VGA computer video and stereo audio signals to a PoleVault Switcher over two CAT 5 UTP cables
- NEW Extron exclusive EDID Minder™ technology ensures that the source device outputs at the appropriate resolution for the display
- IR pass-through provides control connections for DVD/VCR players, tuners, switchers, or other IR controllable devices
- Mounts in products that accept a double-space AAP - Architectural Adapter Plate

Model	Version Description	
PVT RGB AAP	VGA and EDID Minder AAP- Black	See www.extron.com/CC
PVT RGB AAP	VGA and EDID Minder AAP- White	See www.extron.com/CC

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CLASSROOM A/V SYSTEM OPTIONS

PVT RGB D Plus

PoleVault VGA Video and Stereo Audio Input with Local Monitor Output - Decora® Wallplate

The PVT RGB D Plus VGA Video and Stereo Audio Input is designed to work exclusively with a PoleVault Switcher as part of the PoleVault® or WallVault® System. The PVT RGB D Plus accepts a VGA computer-video signal on a female 15-pin HD connector and stereo audio on a 3.5 mm stereo mini jack. It also includes a built-in distribution amplifier with a female 15-pin HD connector that supports a local monitor. An IR pass-through provides control connections for DVD/VCR players, tuners, switchers, or other IR controllable devices. The 3.5mm audio pass-through connector provides audio for recording, podcasting, and assistive listening systems. Extron-exclusive EDID Minder™ technology is included for managing Extended Display Identification to ensure that the source device outputs at the appropriate resolution.

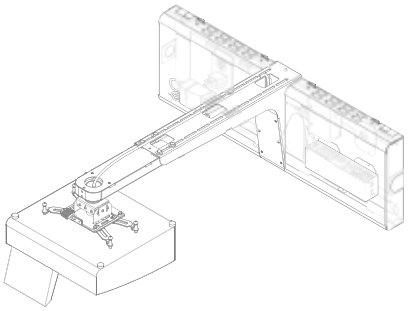
FEATURES

- Available exclusively as part of a PoleVault® or WallVault® System
- Transmits VGA computer video and stereo audio signals to a PoleVault switcher over two CAT 5-type cables
- Built-in distribution amplifier provides local monitor output
- NEW Extron exclusive EDID Minder™ technology ensures that the source device outputs at the appropriate resolution for the display
- IR pass-through provides control connections for DVD/VCR players, tuners, switchers, or other IR controllable devices
- Audio pass-through supplies PoleVault audio content to podcasting or assistive listening systems

Model	Version Description	
PVT RGB D Plus	VGA, Local Out, and EDID Minder - Decora	See www.extron.com/CC

USFM 100

Short-Throw Projector Mount and Equipment Enclosure



The USFM 100 Short-Throw Projector Mount and Equipment Enclosure is designed to securely mount the electronic components of a classroom A/V system. It provides a single solution for mounting the projector along with a complete range of audio and video products required for interactive teaching environments. The USFM 100 is the standard projector mounting and equipment enclosure for the Extron WallVault® line of complete A/V switching and control systems for short-throw projectors. The USFM 100 works with the Extron UPB 25 universal projector mounting bracket for compatibility with nearly every short-throw projector up to 20 pounds. The USFM 100 incorporates unique WallVault enclosures which securely mount and conceal A/V components, protecting them from tampering and theft.

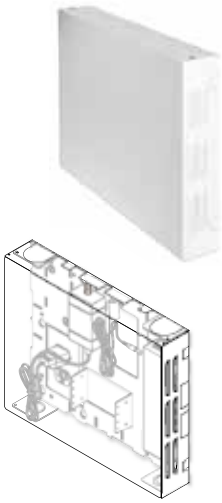
FEATURES

- Standard wall mount solution for WallVault® Systems
- Protects A/V system components from tampering and theft
- Adjustable arm accommodates projectors with a variety of throw distances up to 30 inches
- Base provides numerous holes to support mounting to wall studs with either 16-inch or 24-inch on center spacing
- Knockouts for conduit and raceway

Model	Version Description	
USFM 100	Short-Throw Mount & Enclosure - White	See www.extron.com/CC

WMK 150

WallVault® Wall Mount Kit



The WMK 150 Wall Mount Kit is a secure, fully enclosed, vented housing for wall-mounting the electronic components of a classroom A/V system. The WMK 150 allows WallVault® equipment to be mounted on a wall in close proximity to the display, which makes it ideal for installations that do not use a ceiling or pole mounted projector. The WMK 150 is available in a white painted finish.

FEATURES

- Securely mounts A/V system components to a wall
- Protects components from tampering and theft
- Designed for installations with a flat panel display or wall-mounted, short throw projector
- Large base plate offers a wide variety of mounting and cable management options
- Raceway knockouts are compatible with the most common surface mount systems

Model	Version Description	
WMK 150	Wall Mount Kit - Black	See www.extron.com/CC

Europe
+31.33.453.4040 / +800.3987.6673
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DESIGN AND EDUCATION RESOURCES

A/V Streaming Design Guide

A/V Streaming Over IP for the A/V Professional

A/V streaming technologies have been around for over a decade, yet only recently has video streaming found its way into the professional A/V market. We designed the Extron A/V Streaming Design Guide as an educational resource aimed at familiarizing A/V professionals with the technologies, challenges, and potential applications of A/V over IP streaming. Inside you'll find discussions on the differences between consumer and professional A/V streaming, as well as the quality expectations and technologies associated with both. You will also find detailed system designs constructed from real-world applications utilizing Extron A/V streaming solutions.

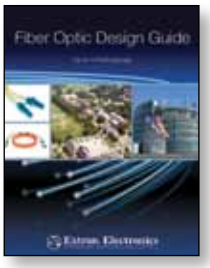
Call your Extron Representative for a copy.

Fiber Optic Design Guide

Fiber Optics for Professional A/V Systems

The Fiber Optic Design Guide is a 75 page reference guide to help the A/V professional develop the required expertise to employ fiber optic technology in A/V systems. The Guide provides tutorials on fiber optic technology and fiber cabling used in commercial A/V systems, allowing A/V professionals to gain a basic understanding of the technology, along with a practical "how-to" approach for designing fiber optic A/V systems.

Call your Extron Representative for a copy.



Extron Guide to Graphical User Interface Design

Touchpanel Design Fundamentals for the A/V Professional

The Extron Guide to Graphical User Interface Design takes a detailed look at the fundamentals of touchpanel interface design and offers guidance on such subjects as navigation, color and font choice, button design and position, human factors and ergonomics, and many more. This comprehensive Guide is a valuable resource for A/V professionals faced with designing useable, intuitive touchpanels, including those in the Extron TouchLink family.

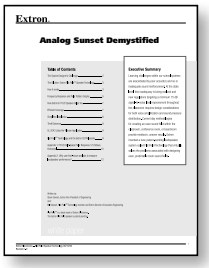
Call your Extron Representative for a copy.

Analog Sunset Demystified

Understanding the Analog Sunset for Blu-ray Disc

This paper discusses and clarifies the issues surrounding the analog sunset and the implications for Blu-ray Disc players and commercially pre-recorded Blu-ray Discs. Additionally, this paper discusses cases where, especially for professional A/V applications, the provisions of the analog sunset do not apply. Awareness of how, when, and if the analog sunset will affect an A/V system will help designers and users choose the best mix of system components to suit their needs.

Download the "Analog Sunset" Demystified White Paper at www.extron.com/analogsunsetpaper.

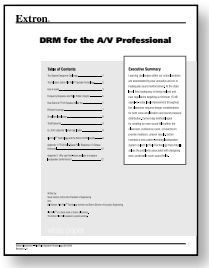


DRM for the A/V Professional

Working with DRM in Commercial A/V Integration

DRM is used by owners and holders of intellectual property to enforce restrictions on the use of their copyrighted content. A/V professionals and their customers need to be aware of DRM, the relevant restrictions on the playback of protected material in public and commercial spaces, and the potential impact on A/V system design and operation. This paper will discuss the two prevalent DRM protocols in use, AACS for protecting digital music and video content, and HDCP for securing digital interfaces including HDMI, DVI, and DisplayPort.

Download the DRM for the A/V Professional White Paper at www.extron.com/drmpaper.



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Normal Office Hours	USA: 7:00 am – 5:30 pm (PST) Monday – Friday Europe: 0900 – 1800 (+1 GMT) Monday – Friday Asia: 0900 – 1800 (+8 GMT) Monday – Friday	Japan: 0900 – 1800 (+9 GMT) Monday – Friday China: 8:00 am – 5:00 pm (+8 GMT) Monday – Friday Dubai: 8:30 am – 5:30 pm (+4 GMT) Sunday – Thursday
24-Hour Technical Support	Dial +800.633.9876 (Inside USA & Canada only) then press (3) — 24-Hour Technical Support. Calls are returned within 30 minutes.	
Special Orders & Handling	Next day shipment for stock items ordered by 2:00 pm (PST) is standard.	
Open Account Information	Qualified accounts may receive Net 30 day payment terms upon approved credit and acceptance of Extron's international credit policy. A hard copy Purchase Order (PO) is required by fax or mail.	
International Shipping Terms	Ex works Extron Anaheim, Ex works Extron Amersfoort, Ex works Extron Singapore, Ex works Extron Shanghai, and Ex works Extron Dubai	
Powered Product Warranty	Three years parts and labor Touchscreen display and overlay components carry a one year parts and labor warranty, while the electronic components are covered by the Extron three year warranty.	
***System Integrator*® Speaker Warranty**	Five years parts and labor	
Cable Performance Warranty	Limited lifetime. Extron Cable Products will be free from defects in material and workmanship for as long as you or your customer own the cable.	

Please refer to Extron business policies for full details.

www.extron.com

Worldwide Sales Offices

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